

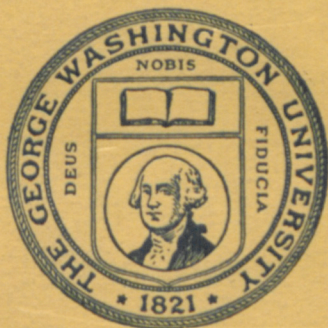
VOLUME XVII

5654
NUMBER 1

George Washington University Bulletin

CATALOGUE NUMBER

MARCH 1918



PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C., MARCH,
JUNE, OCTOBER, AND DECEMBER

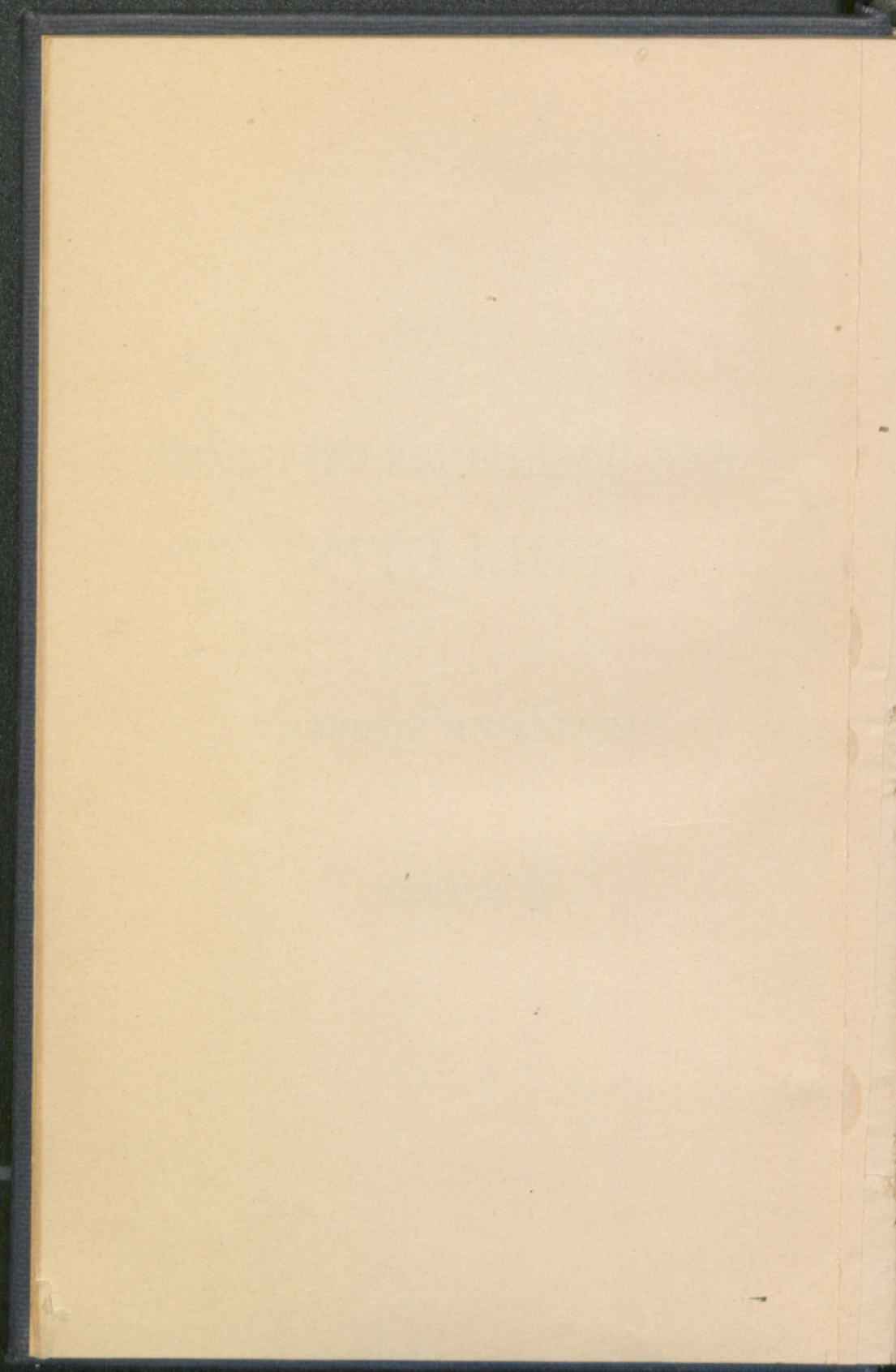
Entered October 6th, 1904, at Washington, D. C., as second-class
matter under Act of Congress of July 16, 1894



GEORGE WASHINGTON UNIVERSITY
BULLETIN

CATALOGUE NUMBER

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PART I
GENERAL

PLATE
I

1918							1919																																																
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UNIVERSITY CALENDAR

1918

March 29-April 1	Friday to Monday, both inclusive.—Easter holidays.
April 2	Tuesday.—Davis Prize Speaking.
April 15	Monday.—Last day on which theses of candidates for the Doctorate degree at the Commencement may be presented.
May 13	Monday.—Last day on which theses of candidates for the Engineering and Master's degrees at the Commencement may be presented.
May 20	Monday.—Doctorate Disputation.
May 20-23	Monday to Thursday.—Examinations for admission.
May 29	Wednesday.—Annual meeting of the Board of Trustees.
May 30	Thursday.—A holiday in all Departments of the University.
June 2	Sunday.—Baccalaureate Sermon.
June 5	Wednesday.—Commencement.

SUMMER VACATION

June 22	Saturday.—Registration for Summer School.
June 24	Monday.—Summer School begins.
September 25	Wednesday.—Academic Year begins in all Departments of the University.
September 30	Monday.—Last day on which theses of candidates for Engineering and Master's degrees at the Fall Convocation may be presented.
October 9	Wednesday.—Stated meeting of the Board of Trustees.
October 24	Thursday.—Fall Convocation.
Nov. 23-30	Thursday to Saturday, both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1918, TO JANUARY 2, 1919, BOTH INCLUSIVE

1919

January 2	Thursday.—Last day on which theses of candidates for the Doctorate degrees at the Winter Convocation may be presented.
January 8	Wednesday.—Stated meeting of the Board of Trustees.
January 27	Monday.—Last day on which theses of candidates for the Engineering and Master's degrees at the Winter Convocation may be presented.

January	27	<i>Monday.</i> —Mid-year Examinations, Department of Arts and Sciences, begin.
February	3	<i>Monday.</i> —Second half-year begins.
February	3	<i>Monday.</i> —Doctorate Disputation.
February	16	<i>Sunday.</i> —Winter Convocation Sermon.
February	22	<i>Saturday.</i> —Winter Convocation. A holiday in all Departments of the University.
April	18-21	<i>Friday to Monday,</i> both inclusive.—Easter holidays.
April	22	<i>Tuesday.</i> —Davis Prize Speaking
April	14	<i>Monday.</i> —Last day on which theses of candidates for the Doctorate degree at the Commencement may be presented.
May	12	<i>Monday.</i> —Last day on which theses of candidates for the Engineering and Master's degrees at the Commencement may be presented.
May	19	<i>Monday.</i> —Doctorate Disputation.
May	19-22	<i>Monday to Thursday.</i> —Examinations for Admission.
May	28	<i>Wednesday.</i> —Final Examinations, Department of Arts and Sciences, begin.
May	30	<i>Friday.</i> —A holiday in all Departments of the University.
June	4	<i>Wednesday.</i> —Annual meeting of the Board of Trustees.
June	8	<i>Sunday.</i> —Baccalaureate Sermon.
June	11	<i>Wednesday.</i> —Commencement.

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WILLIAM MILLER COLLIER, LL.D.,

President Elect of the University

1918

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MAXWELL VAN ZANDT WOODHULL, A.M., 2033 G Street

1919

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Auditor: AMERICAN AUDIT COMPANY.

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(Arranged with the exception of the President, in groups, in the order of appointment and omitting Faculties of the Associated Colleges.)

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* NOTE—In many instances members of the Teaching Staff give only part time to the University. For the names of the members of the Faculties and Teaching Staff of the Associated Colleges, see Part III of this catalogue.

† Absent on Military Service.

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 ALBERT LEWIS HARRIS, B.S. in Arch.....Professor of Architecture
 †HARRY HYLAND KERR, M.D.....Clinical Professor of Surgery
 WILLIAM PINKNEY REEVES, M.D.....Clinical Professor of Surgery
 EDGAR SNOWDEN, M.D.,

Professor of Hygiene and Clinical Associate in Obstetrics

MILLARD FILLMORE THOMPSON, D.D.S., M.D.,

Professor of Oral Surgery

DEWITT CLINTON CROISSANT, Ph.D.....Professor of English
 JOAQUIN DE SEQUEIRA COUTINHO, Kt., Sc.D.

Professor of Portuguese Language and Literature

RICHARD COBB, A.B.,

Secretary of the University and Professor of English (1917-1918)

LOUIS COHEN, B.S. in E. E.....Professor of Radio-Electricity
 TRUMAN ABBE, M.D.....Professor of Roentgenology
 ISRAEL SCHAPIRO, Ph.D., Professor of Semitic Languages and Literature
 MONTGOMERY EARL HIGGINS, M.D.....Professor of Tropical Medicine
 VICTOR HORTA.....Professor of Architecture
 TRUMAN MICHELSON, Ph.D.....Professor of Ethnology
 JAMES CHAMBERS PRYOR, A.M., M.D.,

Professor of Preventive Medicine

CHARLES EDWARD HILL, Ph.D.....Professor of Political Science

ASSOCIATE PROFESSORS

CHARLES TURK BASSETT, D.D.S.

Associate Professor of Dental Ethics and Economics
 In Charge of the Dental Infirmary

WILLIAM FRANCIS LAWRENCE, D.D.S.,

Associate Professor of Prosthetic Technics

D. DE WITT BEEKMAN, D.D.S., . . . Associate Professor of Materia Medica and Therapeutics, in Charge of Dental Infirmary

EUGENE ROGER STONE, D.D.S. . . . Associate Professor of Oral Surgery

JAMES WALTER BERNHARD, D.D.S.

Associate Professor of Crown and Bridge Work

WALTER LOWELL HAGAN, D.D.S.

Associate Professor of Operative Technics

CHARLES GARDNER SHOEMAKER, D.D.S.

Associate Professor of Operative Technics

WILLIAM CARL KILLINGER, D.D.S. . . Associate Professor of Orthodontia

LLOYD HALL SUTTON, S.B., LL.B. . . Associate Professor of Patent Law

DANIEL LERAY BORDEN, A.M., M.D. . . Associate Professor of Surgery

DORRELL GHIO DICKERSON, M.D.,

Associate Professor of Pharmacology and Physiology

JOHN WINSLOW TAYLOR, D.D.S.,

Associate Professor of Prosthetic Technics

ASSOCIATES

DANIEL WEBSTER PRENTISS, S.B., M.D. . . Clinical Associate in Surgery

JOHN BENJAMIN NICHOLS, M.D. . . . Associate in Medicine and Dietetics

EDGAR PASQUAL COPELAND, M.D. . . . Associate in Pediatrics

HARRY HAMPTON DONNALLY, A.M., M.D.,

Clinical Associate in Pediatrics

HENRY RANDALL ELLIOTT, M.D. . . . Associate in Physiology

J. LEWIS RIGGLES, M.D. . . . Associate in Gynecology

† WILLIAM CABELL MOORE, M.D. . . . Associate in Medicine

CHARLES AUGUSTUS SIMPSON, M.D. . . Clinical Associate in Dermatology

COURSEN BAXTER CONKLIN, S.B., M.D. . . Associate in Medicine

JOSEPH DECATUR ROGERS, M.D.,

Clinical Associate in Obstetrics and Surgery

ROBERT YOUNG SULLIVAN, M.D. . . . Clinical Associate in Obstetrics

CHARLES WHEATLEY, M.D. . . . Clinical Associate in Pediatrics

CHARLES WILBUR HYDE, M.D. . . Associate in Medicine and Anaesthesia

WILLIAM JOHNSTON MALLORY, A.M., M.D. . . Associate in Medicine

J. LAWN THOMPSON, M.D. . . . Associate in Medicine

ASSISTANT PROFESSORS

NEVIL MONROE HOPKINS, Ph.D. . . . Assistant Professor of Chemistry

EDWIN ALLSTON HILL, Ph.D. . . . Assistant Professor of Chemistry

OTIS DOW SWETT, S.M., LL.M. . . . Assistant Professor of Chemistry

HIRAM COLVER MCNEIL, Ph.D.,

Assistant Professor of Physical Chemistry

LEVI RUSSELL ALDEN, A.M., LL.B. . . . Assistant Professor of History

BEDFORD BROWN, B.S. in Arch. Assistant Professor of Architecture
 †ARCHIBALD KING, A.M., LL.B. Assistant Professor of Law
 (On leave of absence 1918-19)
 GEORGE MORTON CHURCHILL, Ph.D. Assistant Professor of History
 ROBERT WILBUR MORSE, S.B.

Assistant Professor of Mechanical Engineering
 EDWARD ROGERS NOYES, M.D. Assistant Professor of Chemistry
 WILLIAM CABELL VAN VLECK, A.B., LL.B., Assistant Professor of Law
 JOHN RAYMOND LAPHAM, C.E. Assistant Professor of Civil Engineering
 FRANK ROY RUTTER, Ph.D. Assistant Professor of Commerce
 (On leave of absence 1917-18)

THOMAS BENJAMIN BROWN, Ph.D. Assistant Professor of Physics
 CHARLES SAGER COLLIER, A.B., LL.D. Assistant Professor of Law
 CLARENCE CAMERON KOCHENDERFER, A.M.,

Assistant Professor of Commerce
 MERRILL ISAAC SCHNEBLY, A.B., J.D. Assistant Professor of Law
 HENRY GRATTAN DOYLE, A.M.,

Assistant Professor of Romance Languages
 WILLIAM DARRACH HALSEY, A.B.,

Assistant Professor of Mechanical Engineering
 ARTHUR FREDERICK JOHNSON, M.E.,

Assistant Professor of Naval Architecture

LECTURERS AND INSTRUCTORS

†EDWARD GRANT SEIBERT, M.D.,
 Clinical Instructor in Laryngology and Ophthalmology

FREDERICK EUGENE FOWLE, JR., S.B. Lecturer on Astro-Physics

WILLARD STANTON SMALL, Ph.D. Lecturer on Education

WALTER HIBBARD MERRILL, M.D.,
 Instructor in Electro-Therapeutics and Roentgenology

JOHN POTTS FILLEBROWN, M.D. Clinical Instructor in Surgery

VIRGIL B. JACKSON, M.D. Clinical Instructor in Gynecology

EDMUND THOMAS MURDAUGH FRANKLIN, M.D.,
 Clinical Instructor in Surgery

ADAM KEMBLE, M.D. Clinical Instructor in Genito Urinary Surgery

HOMER GIFFORD FULLER, M.D.,
 Clinical Instructor in Genito-Urinary Surgery

HENRY CISSEL YOUNG, D.D.S. Instructor in Prosthetic Technics and
 Demonstrator in the Dental Infirmary

CLINE N. CHIPMAN, M.D. Instructor in Anaesthesia

HARRY GRANT HODGKINS, A.B. Instructor in Mathematics

JULIA THECKLA MACMILLAN, S.M. Instructor in Zoölogy

†ALBERT PERKINS TIBBETS, A.B., M.D.,
 Clinical Instructor in Laryngology

CHARLES EDWARD VAN ORSTRAND, S.M.,
 Lecturer on Mathematical Physics

HARVEY LINCOLN CURTIS, Ph.D.....Lecturer on Physics
 ELIJAH WHITE TITUS, Ph.D., M.D.....Instructor in Pediatrics
 MARIETTA STOCKARD ALBION,

Lecturer on the Teaching of Children's Literature

ARTHUR DEERIN CALL, A.M.....Lecturer on Elementary Education

GEORGE TRAVER HARRINGTON, B.S. in Agri., B.S. in Chem.,

Instructor in Botany

†WILLIAM HENRY HUNTINGTON, M.D.,

Clinical Instructor in Laryngology and Otology

EDWARD CULLOM, A.M.....Instructor in French

JANVIER WHITTON LINDSAY, A.B., M.D.,

Instructor in Physical Diagnosis

WALTON COLCORD JOHN, A.M.....Instructor in Spanish

EDGAR LEE HEWETT, D.Soc.....Lecturer on Archaeology

LEONARD SMITH DOTEN, B.S. in C.E....Instructor in Civil Engineering

HARRY SAMUEL LEWIS, M.D.....Instructor in Surgery

JOHN HUNTER SELBY, M.D.....Instructor in Roentgenology

ROBERT SAMUEL TRIMBLE, M.D.....Clinical Instructor in Medicine

WILLIAM BROWNE CARR, M.D.....Instructor in Morbid Anatomy

CECIL KNIGHT JONES, B.Litt.....Instructor in Spanish

†OLIVER CLEMENCE COX, M.D.....Instructor in Minor Surgery

†WILLIAM BERRY MARBURY, M.D.....Instructor in Surgery

ALEXANDER WETMORE, S.M.....Instructor in Zoology

HARRIET UNDERWOOD SYMONDS, A.M.....Lecturer on Education

CHARLES WALTER RICH, D.D.S.....Instructor in Prosthetic Technics

JASPER NEWTON ROBERTS, D.D.S....Instructor in Prosthetic Technics

HENRY MERLE SPILLAN, D.D.S., Instructor in Crown and Bridge Work

SAMUEL HARRISON GREENE, M.D.

Clinical Instructor in Laryngology and Otology

†WILLIAM HOUSTON LITTLEPAGE, M.D., Clinical Instructor in Medicine

WILLIAM MILLER COLLIER, A.M.....Lecturer on Diplomacy

DELOS HAMILTON SMITH, B.S. in Arch.....Instructor in Architecture

JULES MAILLET.....Instructor in French Conversation

JAMES CHARLES HASSALL, M.D.,

Instructor in Psychiatry and Clinical Neurology

CHARLES ELMER RESSER, Ph.D.....Instructor in Geology

EVERETT MONROE ELLISON, A.M., M.D.,

Instructor in Pharmacology and Chemistry

WILLIAM DAVID TEWKSBURY, M.D.....Clinical Instructor in Medicine

JOSEPH ALTSHULER FRIEDMAN, D.D.S., Instructor in Prosthetic Technics

WALDO LASALLE SCHMITT, S.B.....Instructor in Zoology

WILLIAM CARSON RYAN, Jr., A.B.,

Instructor in Education in the Summer School

†THOMAS MADDEN FOLEY, M.D.

Instructor in Orthopedic Surgery

GERTRUDE RICHARDSON BRIGHAM, Ph.D.,

Instructor in Archaeology and History of Art

†CURTIS LEE HALL, M.D....	Clinical Instructor in Orthopedic Surgery
†HOWARD FRANCIS KANE, A.B., M.D.....	Instructor in Obstetrics
ROSS McCLURE CHAPMAN, M.D.,	Instructor in Psychiatry and Neurology
†CARROL EDWARD BINGMAN, M.D.....	Clinical Instructor in Medicine
THOMAS LINVILLE, M.D.....	Clinical Instructor in Medicine
THOMAS MILLER, JR., M.D.....	Clinical Instructor in Medicine
SAMUEL BOYCE POLE, M.D.,	Clinical Instructor in Laryngology and Otology
FREDERICK WILLIAM WARDEN, R.A., M.R.C.S., L.R.C.P.,	Clinical Instructor in Surgery
NELSON DUVAL BRECHT, M.D.....	Instructor in Gynecology
PATRICK GALLAGHER, D.D.S.....	Instructor in Pathology
ELMER LOUIS KAYSER, A.B.....	Instructor in History
ROBERT SZOLD, A.B., LL.B.....	Instructor in Law
SPRY OWEN CLAYTOR, D.D.S....	Instructor in Histology and Embryology
WILLIAM HENRY IRVING FLEMING, B.S., in Arch.,	Instructor in Architecture
EARL GORDON MARSH, C.E.....	Instructor in Civil Engineering
LOUIS EUGENE McARTHUR, A.B.....	Instructor in History
ALBERT JOHN MOLZAHN, M.D.....	Instructor in Surgery
ROBERT READ RAFTER, M.D.....	Instructor in Medicine
FERDERICK Y. DONN, M.D.....	Clinical Instructor in Obstetrics
FRANK ALBERT WOODWARD, B.S. in M. E.....	Instructor in Drawing
GEORGE VALENTINE WHITTLE, M.E.,	Instructor in Naval Architecture
CARL FALSTER HANSON, M.S. in E.E.,	Instructor in Electrical Engineering
MARCEL MORAUD, B. es. L.....	Lecturer in French
GUY TURNER MORRIS, S.M.....	Instructor in Electrical Engineering
XAVIER TEILLARD, B. es. L.....	Instructor in French
EMIL GODFREY ARZBERGER, A.M.....	Instructor in Botany
THOMAS A. POOLE, M.D.,	Clinical Instructor in Laryngology and Otology
JOHN MORRIS LADD, M.D.....	Instructor in Histology
ROBERT C. MCCOLLOUGH, D.D.S.....	Instructor in Metallurgy and Demonstrator in the Prosthetic Laboratory
RALPH COHEN, M.D.....	Instructor in Anatomy
WILLIAM BINFORD KING.....	Instructor in Anatomy
CLAY LUTHER JENNISON.....	Instructor in Naval Architecture
STERLING V. MEAD, D.D.S.....	Instructor in Radiography
CHARLES ALBERT WHITE, D.D.S.....	Lecturer on Dental Jurisprudence
WEBB WATSON WYMAN, D.D.S....	Instructor in Crown and Bridge Work
FRANK W. HARTMAN, M.D.....	Instructor in Pathology

ASSISTANTS AND DEMONSTRATORS

RALPH WEBSTER BENTON, A.B.....	Assistant in English
HENRY ALBERT LEPPER, B.S. in Chem.....	Assistant in Chemistry
THERESA KARGER, B.S. in Chem.....	Assistant in Chemistry

GEORGE WASHINGTON PHILLIPS, B.S. in Chem. Assistant in Chemistry
 VIVIAN CAMPBELL KELCHNER ROBEY... Student Assistant in Chemistry
 ELLA MORGAN AUSTIN ENLOWS, A.B., S.M..... Assistant in Chemistry
 BONIFANT HAMILTON..... Student Assistant in Chemistry
 PAUL HENRY BRATTAIN..... Student Assistant in Chemistry
 TOMAS CAJIGAS MOREU

Student Assistant in Histology and Embryology

MARY ELIZA WHEATLEY..... Teacher in the Demonstration School
 TREADWAY BARKER MUNROE..... Student Assistant in Chemistry
 ANNIE MARION CARDWELL.. Assistant in the Arts and Sciences Library
 and Student Assistant in English
 MAX RHOADE..... Assistant Librarian in the Law School
 NATHAN NORMAN SMILER, Phar.D.,

Student Assistant in Physiological Chemistry

HERBERT PERCY RAMSEY, A.B..... Student Assistant in Chemistry
 MARIE ELLEN GATCHELL, A.B..... Student Assistant in English
 FREDERICK C. O'CONNELL..... Clerk of the Moot Court
 LESLIE HAROLD ADAMS..... Student Assistant in History
 WILLIAM THOMAS CONBOYE..... Student Assistant in Architecture
 MAY BLANCHE EINSTEIN..... Assistant in Arts and Sciences Library
 ARTHUR I. GEBHART..... Student Assistant in Chemistry
 MISHA LADDON..... Student Assistant in Chemistry
 PERCY W. LEDUC..... Student Assistant in Chemistry
 ARTHUR MINNICK, A.B..... Assistant in Chemistry
 PETER J. VALAER, S.M..... Assistant in Chemistry
 MORRIS WEINSTEIN..... Student Assistant in Chemistry
 WILBUR L. BOWEN..... Student Assistant in Chemistry
 ROBERT R. HOTTEL..... Student Assistant in the Medical Library
 GEORGE VAIL MINICK,

Student Assistant in Physiology and Pharmacology

EVERETT M. BRADLEY

Student Assistant in Physiological Chemistry

RALPH L. MORRISON..... Student Assistant in Dentistry
 PAUL E. WARING..... Student Assistant in Economics
 MARGARET MORTON KNOWLES, A.B..... Student Assistant in English
 RUTH FRANCES ALLEN,

Student Assistant in the Arts and Sciences Library

HAROLD FITZHUGH HANES..... Assistant in Law Library
 PAUL S. HERRING, D.D.S..... Demonstrator in the Infirmary
 HARRY L. GOSNELL..... Assistant in Pathology
 CHARLES D. R. HALSTEAD..... Student Assistant in Chemistry
 WILLIAM J. CHEYNEY..... Student Assistant in History
 GORDON C. TIBBITTS..... Student Assistant in Chemistry
 BENJAMIN HOLLANDER..... Student Assistant in Histology
 JOHN H. BLOEM..... Assistant in Law Library

EDUCATIONAL ORGANIZATION

The University Comprises:

THE DEPARTMENT OF ARTS AND SCIENCES.

School of Graduate Studies.

Columbian College.

College of Engineering.

Teachers College.

THE DEPARTMENT OF MEDICINE.

Medical School.

Dental School.

THE LAW SCHOOL.

THE ASSOCIATED COLLEGES

National College of Pharmacy.

College of Veterinary Medicine.

ANNUAL COMMENCEMENT

The Annual Commencement is held on the Wednesday following the Wednesday nearest the first day of June. Students who have satisfied the requirements for degrees subsequent to the June Commencement may be awarded degrees at the Fall Convocation on October 25.

The Winter Convocation is held on February 22.

THE UNIVERSITY LIBRARY

The University Library comprises the Library of the Department of Arts and Sciences, the Law Library, and the Medical Library. It contains 53,200 volumes.

In addition to its general collections the Library of the Department of Arts and Sciences contains the library of the late Professor Richard Heinzel, of the University of Vienna, containing 7200 books and pamphlets in Germanic philology and literature, and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7900 books and pamphlets in Greek and Roman literature, archaeology, and history; the Mount Vernon Alcove containing 4000 volumes in political history, international law, and the social sciences. Besides, the library of the American Institute of Architects, consisting of 1063 volumes and portfolios of plates and drawings, is deposited in the reading room as a loan collection, where it is accessible, also, to all local architects. The library is open from 9 a.m. to 10.30 p.m.

The Law Library, containing 7500 volumes, is open from 8.30 a.m. to 10 p.m.

The Medical Library, containing about 3000 volumes, is open from 9 a.m. to 9 p.m.

PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

PART II
DEPARTMENTS OF THE UNIVERSITY

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

DEPARTMENT OF ARTS AND SCIENCES

FACULTY

- CHARLES HERBERT STOCKTON, LL.D.,
President of the University (To September 1, 1918)
- WILLIAM MILLER COLLIER, LL.D.... President-Elect of the University
- JAMES HOWARD GORE, Ph.D., LL.D.,
Professor of Mathematics, Emeritus
- HOWARD LINCOLN HODGKINS, Ph.D..... Dean of the Department of
Arts and Sciences and of the College of Engineering, and Profes-
sor of Mathematics
- HERMANN SCHOENFELD, Ph.D., LL.D..... Professor of German
- JAMES MACBRIDE STERRETT, A.M., D.D.,
Professor of Philosophy, Emeritus
- CHARLES EDWARD MUNROE, Ph.D., LL.D.,
Dean of the School of Graduate Studies and Professor of Chemistry
- FRANK WIGGLESWORTH CLARKE, Sc.D., LL.D.,
Professor of Mineral Chemistry
- WILLIAM ALLEN WILBUR, A.M., Litt.D.
Dean of Columbian College and Professor of English
- CHARLES CLINTON SWISHER, Ph.D., LL.D... Professor of History
- MITCHELL CARROLL, Ph.D.,
Professor of Archaeology and the History of Art
- PAUL BARTSCH, Ph.D..... Professor of Zoology
- GEORGE NEELY HENNING, A.M..... Professor of Romance Languages
- ALBERT BURNLEY BIBB.. Professor of Architecture
- ASAPH HALL, Jr., Ph.D..... Professor of Astronomy
- ALBERT MANN, Ph.D..... Professor of Botany
- SHEPHERD IVORY FRANZ, Ph.D., LL.D., M.D.,
Professor of Experimental Psychology
- CHARLES SIDNEY SMITH, Ph.D..... Professor of Greek and Latin
- WILLIAM CARL RUEDIGER, Ph.D.,
Dean of Teachers College, and Professor of Educational Psychology
- ALFRED FRANCIS WILLIAM SCHMIDT, A.M.... Professor of German
- WILLIS LUTHER MOORE, Sc.D., LL.D... Professor of Applied Meteorology
- WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,
Professor of Meteorological Physics
- EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.... Professor of Philosophy
- GEORGE WASHINGTON LITTLEHALES, C.E., Professor of Nautical Science
- EDWIN VIVIAN DUNSTAN, C.E... Professor of Civil Engineering
- OSCAR ALEXANDER MECHLIN, C.E..... Professor of Civil Engineering
- RAY SMITH BASSLER, Ph.D..... Professor of Geology
- ROBERT RUSS KERN, A.B..... Professor of Economics and Sociology

ALBERT LEWIS HARRIS, B.S. in Arch.....Professor of Architecture
 DE WITT CLINTON CROISSANT, Ph.D.....Professor of English
 JOAQUIN DE SIQUEIRA COUTINHO, Kt., Sc.D.

Professor of Portuguese Language and Literature

RICHARD COBB, A.B. (1917-18).....Professor of English

LOUIS COHEN, B.S. in E.E.....Professor of Radio-Electricity

ISRAEL SCHAPIRO, Ph.D.,

Professor of Semitic Languages and Literature

VICTOR HORTA.....Professor of Architecture

TRUMAN MICHELSON, Ph.D.....Professor of Ethnology

JAMES CHAMBERS PRYOR, A.M., M.D.,

Professor of Preventive Medicine

CHARLES EDWARD HILL, Ph.D.....Professor of Political Science

NEVIL MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry

EDWIN ALLSTON HILL, Ph.D.....Assistant Professor of Chemistry

OTIS DOW SWETT, S.M, LL.M.....Assistant Professor of Chemistry

HIRAM COLVER MCNEIL, Ph.D.,

Assistant Professor of Physical Chemistry

LEVI RUSSELL ALDEN, A.M., LL.B.....Assistant Professor of History

BEDFORD BROWN, S.B.....Assistant Professor of Architecture

GEORGE MORTON CHURCHILL, Ph.D.....Assistant Professor of History

ROBERT WILBUR MORSE, S.B.,

Assistant Professor of Mechanical Engineering

EDWARD ROGERS NOYES, M.D.....Assistant Professor of Chemistry

JOHN RAYMOND LAPHAM, M.S. in C.E.,

Assistant Professor of Civil Engineering

FRANK ROY RUTTER, Ph.D. (on leave of absence 1917-18),

Assistant Professor of Commerce

THOMAS BENJAMIN BROWN, Ph.D.....Assistant Professor of Physics

CLARENCE CAMERON KOCHENDERFER, A.M.,

Assistant Professor of Commerce

HENRY GRATTAN DOYLE, A.M.,

Assistant Professor of Romance Languages

WILLIAM DARRACH HALSEY, A.B.,

Assistant Professor of Mechanical Engineering

ARTHUR FREDERICK JOHNSON, M.E.,

Assistant Professor of Naval Architecture

FREDERICK EUGENE FOWLE, JR., S.B.....Lecturer on Astro-Physics

WILLARD STANTON SMALL, Ph.D.....Lecturer on Education

HARRY GRANT HODGKINS, A.B.....Instructor in Mathematics

JULIA THECKLA MACMILLAN, S.M.....Instructor in Zoology

CHARLES EDWIN VAN ORSTRAND, S.M.

Lecturer on Mathematical Physics

HARVEY LINCOLN CURTIS, Ph.D.....Lecturer on Physics

MARIETTA STOCKARD ALBION, A.B.,

Lecturer on the Teaching of Children's Literature

ARTHUR DEERIN CALL, A.M. Lecturer on Elementary Education
GEORGE TRAVER HARRINGTON, B.S. in Agr., B.S. in Chem.,

EDWARD CULLOM, A.M.....Instructor in French

WALTON COLCORD JOHN, A.M. Instructor in Spanish

EDGAR LEE HEWETT, D.Soc..... Lecturer on Archaeology

LEONARD SMITH DOTEN, B.S. in C.E....Instructor in Civil Engineering

CECIL KNIGHT JONES, B.Litt..... Instructor in Spanish

ALEXANDER WETMORE, A.B..... Instructor in Zoology

HARRIET UNDERWOOD SYMONDS, A.M.....Lecturer on Education

WILLIAM MILLER COLLIER, LL.D.....Lecturer on Diplomacy

DELOS HAMILTON SMITH, B.S. in Arch.....Instructor in Architecture

JULES MAILLET.....Instructor in French Conversation

CHARLES ELMER RESSER, Ph.D.....	Instructor in Geology
.....	Instructor in Zoology

WALDO LASALLE SCHMITT, S.B.....Instructor in Zoology

GERTRUDE RICHARDSON BRIGHAM, Ph.D.,
Instructor in Archaeology and History of Art

	Instructor in Archaeology and History of Art
F. J. Y.	A. B. Instructor in History

ELMER LOUIS KAYSER, A.B. Instructor in History
 H. J. LEWIS, B.S. in Arch.

WILLIAM HENRY IRWIN FLEMING, B.S. in Arch.,
Instructor in Architecture

EARL GORDON MARSH, C.E. Instructor in Civil Engineering

EARL GORDON MARSH, C.E.....Instructor in Civil Engineering
 LOUIS EUGENE MCARTHUR, A.B.....Instructor in History

LOUIS EUGENE MCARTHUR, A.B. Instructor in History
FRANK ALBERT WOODWARD, B.S. in M.E. Instructor in Drawing

FRANK ALBERT WOODWARD, B.S. in M.E. Instructor in Drawing
GEORGE VALENTINE WHITTLE, M.E. Instructor in Naval Architecture

CARY FAISTER HANSON, M.S. in E.E.,

CARL FALSTER HANSON, M.S. in E.E.,
Instructor in Electrical Engineering

MARCEL MORAUD, B. ès L..... Lecturer in French

GUY TURNER MORRIS, S.M.....Instructor in Electrical Engineering

XAVIER TEILLARD, B. ès L..... Instructor in French

Faculty of the School of Graduate Studies

President Stockton, President-Elect Collier, Dean Munroe, Professors Hodgkins, Schoenfeld, Clarke, Wilbur, Swisher, Carroll, Bartsch, Hering, Hall, Mann, Franz, Smith, Ruediger, Schmidt, Moore, Humphreys, Richardson, Littlehales, Dunstan, Mechlin, Bassler, Kern, Croissant, Schapiro, Michelson, Pryor, C. E. Hill; Assistant Professors Hopkins, E. A. Hill, McNeil, Alden, Churchill, Noyes, Morse, Lapham, T. B. Brown, Kochenderfer, Doyle; Messrs. Small, Van Orstrand, Curtis.

Faculty of Columbian College

President Stockton, President-Elect Collier, Dean Wilbur, Professors Hodgkins, Schoenfield, Munroe, Swisher, Carroll, Bartsch, Henning, Bibb, Smith, Ruediger, Schmidt, Richardson, Bassler, Kern, Croissant,

Cobb, C. E. Hill; Assistant Professors Swett, Alden, T. B. Brown, Kochenderfer, Doyle, Miss Macmillan; Messrs. Harrington, John, Wetmore, Resser, Kayser, Arzberger.

Faculty of College of Engineering

President Stockton, President-Elect Collier, Dean Hodgkins, Professors Schoenfeld, Munroe, Wilbur, Henning, Bibb, Schmidt, Dunstan, Bassler, Harris; Assistant Professors Swett, Alden, Brown, Morse, Lap- ham, T. B. Brown, Doyle, Halsey, Johnson; Messrs. Smith, Resser, Fleming, Marsh, Whittle, Woodward, Hanson, Morris.

Faculty of Teachers College

President Stockton, President-Elect Collier, Dean Ruediger, Professors Hodgkins, Schoenfeld, Munroe, Wilbur, Swisher, Bartsch, Hen- ning, Smith, Schmidt, Richardson, Bibb, Kern, Croissant, Cobb, C. E. Hill; Assistant Professors Alden, T. B. Brown, Kochenderfer, Doyle; Messrs. Small, Call; Mrs. Albion, Mrs. Symonds, Mr. Kayser.

SCHOOL OF GRADUATE STUDIES

HIGHER DEGREES

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (S.M.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

ADMISSION

Candidates for admission to courses for higher degrees must make application to the Dean of the School of Graduate Studies on application blanks, which may be obtained of him. Candidates must present the diplomas they hold, or certificates that they have received such diplomas, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the course of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's or other higher degree sought. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated and approved University subjects and to present a satisfactory thesis, all amounting in value to not less than thirty semester-hours of work. Only one of the minor topics may be selected from the University subject which includes the major topic. Work for which this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete a course of study amounting to not less than thirty semester-hours of

work distributed among three approved University subjects, not more than eighteen semester-hours of which shall be given to any one subject. The candidate must also present a thesis in the field to which the major subject belongs which shall count for not more than six of the required thirty credits.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done in satisfaction of the requirements for the Bachelor's degree shall be counted again for a higher degree.

HIGHER DEGREES IN ENGINEERING

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography which shall count for not more than six credits. Three approved full courses totaling with the thesis not less than thirty semester-hours is the minimum required as constituting a full year's work.

DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred upon a student who has pursued specialized courses in university subjects for a period of not less than three years, has engaged in research under university auspices, has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for this degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for his graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. The applicant may be credited with graduate work done at

other universities, provided such work is shown to be of grade similar to that required here, but one year, preferably the last, must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University subjects—one major and two collateral minor studies, one of which minors may be in the subject which includes the major topic. These must be pursued under the guidance of a committee consisting of the professors in charge of the University subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a thesis upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

CANDIDATE'S COMMITTEES

The professors and other university officers offering the topics in which a candidate must qualify for his degree and to whom he is assigned constitute the Committee that must pass upon his work. The officer directing the major topic is chairman.

EXAMINATIONS

Candidates must pass examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken. If a candidate has satisfactorily passed his final examination, he may be permitted to complete his thesis away from the University.

DEFENSE OF THE THESIS

Before a candidate can be recommended to the Board of Trustees for the Doctor of Philosophy degree, he must have successfully defended his thesis in public before a Board of Experts not officially connected with the University. Before the candidate can be permitted to undertake the defense of his thesis, the thesis must have been favorably reported on and recommended for defense by the professor having supervision over the candidate's major topic, and by a co-referee appointed from the Faculty of Graduate Studies.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Applied Mathematics, Archaeology, Architecture, Anatomy, Astronomy, Astro-Physics, Bacteriology, Botany, Chemistry, Economics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Ethnology, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Gynecology, Histology, Embryology, History, History of Art, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Microscopy, Nautical Science, Paleontology, Pathology, Philosophy, Physics, Physiology, Pharmacology, Political Sciences, Preventive Medicine, Psychiatry, Psychology, Romance Language and Literature, Semitics, Sociology, Zoology.

REGULATIONS REGARDING THESES

All theses for each degree sought must, in their final form, be presented to the Dean on the dates announced in the University Calendar. They must previously have been typewritten on official thesis paper, which may be obtained from the Treasurer of the University. The thesis will be presented by the Dean to the Chairman of the Committee on the candidate and, also in the case of a thesis from a candidate for the Ph.D. degree, to the co-referee appointed from and by the Faculty for examination as to its merits when, on a favorable report by them, it may be defended in the Public Disputation. After their acceptance, theses with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate for the degree of Doctor of Philosophy shall arrange, to the satisfaction of the Faculty, to print his thesis under the supervision of the professor in charge of his major subject, within one year after the degree is granted, and he shall present one hundred copies to the University, to be distributed among institutions of learning.

DOCTORATE DISPUTATIONS

The Thirty-first Doctorate Disputation was held publicly on March 19, 1917. The theses that were successfully defended, the candidates and the members of the boards of experts were as follows:

Thesis: The Development of the Greek's Conception of the Absolute (God). By HARRY LAWRENCE ICE, A.B., 1912, A.M., 1912, Bethany College. Before FRANK W. COLLIER, S.T.B., Ph.D., Director of Research, American University; REV. T. A. JOHNSTONE, Member, Society for Philosophical Inquiry; REV. H. W. O. MILLINGTON, D.D., Pastor, Brookland Baptist Church. EDWARD ELLIOTT RICHARDSON, M.D., Ph.D., Professor of Philosophy, presiding.

Thesis: Farm Organization in the Irrigated Valleys of Southern Arizona. By ROBERT WAITMAN CLOTHIER, S.B., 1897, S.M., 1899, Kansas State Agricultural College. Before ARTHUR POWELL DAVIS, B.S., Chief Engineer, U. S. Reclamation Service; B. H. RAWL, B.S., Chief, Dairy Division, Department of Agriculture; W. J. SPILLMAN, B.S., M.S., D.Sc., Chief, Office of Farm Management, Department of Agriculture. ROBERT RUSS KERN, A.B., Professor of Economics and Sociology, presiding.

The Thirty-second Doctorate Disputation was held publicly on May 14, 1917. The theses that were successfully defended, the candidates and the members of the boards of experts were as follows:

Thesis: Studies in Immunity with Special Reference to Complement Fixation. By ALFRED BLUMBERG, M.Ph. 1905, Royal Francis Joseph University, Hungary; Phar.D. 1916, George Washington University. Before ADOLPH EICHHORN, D.V.M., former Chief Division of Pathology, U. S. Department of Agriculture; GEORGE M. KOBER, M.D., LL.D., Dean, Georgetown Medical School; JOHN R. MOHLER, V.D.M., Assistant Chief, Bureau of Animal Industry. OSCAR BENWOOD HUNTER, A.B., M.D., Professor of Histology and Embryology, presiding.

Thesis: A Brief History of the Sheep Industry in the United States. By LOUIS GEORGE CONNOR, B.S. 1910, S.M. 1913, Wesleyan University, M.S.A., 1912, Cornell University. Before F. R. MARSHALL, B.S.A., in charge Sheep and Goat Investigations, U. S. Department of Agriculture; S. N. D. NORTH, A.M., LL.D., former Secretary, National Association of Wool Manufacturers, Director, U. S. Census, 1903-1909; GEORGE M. ROMMEL, B.S.A., Chief Animal Husbandry Division, U. S. Department of Agriculture. GEORGE M. CHURCHILL, Ph.D., Assistant Professor of History, presiding.

Thesis: The Pod Blight Disease of the Lima Bean, (*Phaseolus Lunatus*), Caused by *Diaporthe Pascolorum* C. & E. By LEONARD LEE HARTER, A.B. 1903, A.M. 1906, University of Nebraska. Before WILLIAM E. SAFFORD, Economic Botanist, U. S. Department of Agriculture; WARREN W. STOCKBERGER, B.S., Ph.D., Physiologist, U. S. Department of Agriculture; RODNEY H. TRUE, M.S., Ph.D., Physiologist, U. S. Department of Agriculture. MARCUS WARD LYON, Jr., M.D., Ph.D., Professor of Bacteriology and Pathology, presiding.

Thesis: The Comparative Morphology of the Insect Order *Strepsiptera*. By WILLIAM DWIGHT PIERCE, A.B. 1904, A.M. 1907, University of Nebraska. Before ADAM J. BÖVING, Ph.D., Expert, Division of Entomology, U. S. Department of Agriculture; L. O. HOWARD, Ph.D., LL.D., Chief, Bureau of Entomology, U. S. De-

partment of Agriculture; CHARLES L. MARLATT, B.S., M.S., Assistant Chief Entomologist, U. S. Department of Agriculture. WILLIAM H. DALL, A.M., D.Sc., LL.D., Acting Professor of Zoology, presiding.

Thesis: The Grapsoid Crabs of America. By MARY JANE RATHBUN, A.M., 1916, University of Pittsburgh. Before W. P. HAY, B.S., M.S., Head Department of Biology, Washington High Schools; MRS. WILLIAM D. SEARLE, A.M., Ph.D.; HUGH M. SMITH, M.D., LL.D., Commissioner of Fisheries. PAUL BARTSCH, Ph.D., Professor of Zoology, presiding.

Thesis: The Stratigraphic and Geographic Distribution of North American Cambrian Fossils. By CHARLES ELMER RESSER, A.B., 1913, Franklin & Marshall College, A.M. 1915, George Washington University. Before F. H. KNOWLTON, M.S., Ph.D., Geologist, U. S. Geological Survey; L. W. STEPHENSON, Ph.D., Palaeontologist, U. S. Geological Survey; EDWARD O. ULRICH, A.M., D.Sc., Geologist, U. S. Geological Survey. RAY SMITH BASSLER, Ph.D., Professor of Geology, presiding.

Thesis: A Chemical Study of Pyrethrum. By RURIC CREGAN ROARK, A.B. 1908, University of Cincinnati, A.M. 1908, University of Illinois. Before HORACE H. CUSTIS, A.M., Ph.D., Inspector of Insecticides and Fungicides, U. S. Department of Agriculture; HENRY C. FULLER, B.S., Chief Division of Food and Drug Products, Institute of Industrial Research; LYMAN F. KEBLER, M.S., M.D., Chief Drug Laboratory, U. S. Department of Agriculture. OTIS DOW SWETT, S.M., LL.M., Assistant Professor of Chemistry, presiding.

Thesis: The Source of Apple Bitter-rot Infections. By JOHN WILLIAM ROBERTS, A.B. 1904, A.M., 1909, University of Nebraska. Before F. V. Coville, A.B., Botanist, U. S. Department of Agriculture; DAVID G. FAIRCHILD, B.S., M.S., Chief, Office Seed and Plant Introduction, U. S. Department of Agriculture; B. M. WAITE, B.S., Pathologist in charge Fruit Disease Investigations, U. S. Department of Agriculture. ALBERT MANN, Ph.D., Professor of Botany, presiding.

Thesis: Climatic Conditions as Related to Plant Growth and other Physiological Activities. By ARTHUR WILLIAM SAMPSON, S.B. 1907, A.M. 1909, University of Nebraska. Before A. S. HITCHCOCK, B.S., M.S., Systematic Agrostologist, U. S. Department of Agriculture; HERBERT H. KIMBALL, M.S., Ph.D., Professor of Meteorology, U. S. Weather Bureau; THOMAS HENRY KEARNEY, Physiologist, Bureau of Plant Industry, U. S. Department of Agriculture. WILLIS LUTHER MOORE, Sc.D., LL.D., Professor of Applied Meteorology, presiding.

THE COLLEGES

The College session of 1918-19 begins Wednesday, September 25, 1918.
The Colleges are open to men and women.

ADMISSION

Every applicant for admission is required to present a certificate of standing and regular dismissal from the school or college which he has last attended.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools that present evidence of affording adequate preparation in the required subjects. Deans of the Colleges will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificates of the College Entrance Examination Board will be accepted.

The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units." For prescribed studies see the specifications of each college.

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

ENTRANCE EXAMINATIONS

The regular examinations for admission are held in May.
The following is the schedule for 1918:

Monday, May 20, 1918

Elementary Latin.....	9.00-11.00
Plane Geometry.....	11.00- 1.00
Physics.....	2.00- 4.00
Greek.....	2.00- 5.00

Tuesday, May 21

Elementary Algebra.....	9.00-11.00
Elementary French.....	11.00- 1.00
Elementary German.....	2.00- 4.00
Ancient History.....	4.00- 6.00

Wednesday, May 22

Plane Trigonometry.....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English.....	2.00- 5.00

Thursday, May 23

Advanced Algebra.....	9.00-11.00
Solid Geometry.....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates from the Washington high schools for the Kendall and the University Scholarships will be examined on nine and one-half units. These units upon which the examination will be given are the following: the specified subjects—English (three units), Mathematics (two and one-half units), and one other language (two units); the remaining two units will be in language, history, mathematics, physics, chemistry, biology—as the candidate shall elect. The remainder of the fifteen units must be certified from the high schools.

DEFINITION OF REQUIREMENTS

English

(Three units)

The requirement in English is that recommended by the National Conference on Uniform Entrance Requirements in English.

However accurate in subject matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling or other essentials of good usage.

The examination will be divided into two parts:

1. Grammar and Composition

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relations of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English, which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

2. Literature

The examination in literature will include:

A. *Reading*.—General questions designed to test such a knowledge and appreciation of literature as may be gained by an intelligent reading of at least two books under each of five groups as follows: Group I—Classics in Translation (a selection from any other group may be substituted for this), Group II—Shakespeare, Group III—Prose Fiction, Group IV—Essays, Biography, etc., Group V—Poetry. Other books than those named in the Uniform Entrance Requirement list will be accepted under each group, provided the books are of standard literary character. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but the books named in this list will not be made the basis of detailed questions.

B. *Study*.—The books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP I—DRAMA

Shakespeare: Julius Caesar, or Macbeth, or Hamlet.

GROUP II—POETRY

Milton: L'Allegro, Il Penseroso, and either Comus or Lycidas.

Tennyson: The Coming of Arthur, The Holy Grail, and The Passing of Arthur.

The selections from Wordsworth, Keats and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

GROUP III—ORATORY

Burke: Speech on Conciliation with America.

Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union.

Washington's Farewell Address and Webster's First Bunker Hill Oration.

GROUP IV—ESSAYS

Carlyle: Essay on Burns, with a selection from Burns's Poems.

Macaulay: Life of Johnson.

Emerson: Essay on Manners.

A test on the books prescribed under the *Study* groups will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient quali-

ties of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

For the George Washington University Scholarship Entrance Examinations the books for *Reading* and *Study* will be the required English of the Washington High Schools.

Latin

Elementary (two units)

a. I. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verb; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

II. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based on Caesar.

b. Caesar: Any four books of the Gallic War, preferably the first four.

Advanced (two units)

a. Cicero: Any six orations from the following list, but preferably the first six mentioned. The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

b. Virgil: The first six books of *Aeneid*.

c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

Greek

Elementary (two units)

a. I. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

II. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions. The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

b. Xenophon: The first four books of the *Anabasis*.

Advanced (one unit)

a. Homer: The first three books of the *Iliad* (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

French

Elementary (two units)

Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

Advanced (two units)

Candidates in advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

Spanish

(Two units)

Candidates in Spanish must have a good knowledge of grammar including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

German

Elementary (two units)

Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of the elements of German grammar and the ability to translate simple prose into German are requisite. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

Advanced (two units)

Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

▼
History

In this subject special importance is attached to preparation in geography.

Ancient (one unit)

- a. Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.
- b. Roman History; as much as is contained in Allen's, Bottsford's or West's History of the Roman People.

Mediaeval and Modern European History (one unit)

As much as is contained in Myer's History of Mediaeval and Modern Europe.

English History (one unit)

As much as is contained in Larned's or Cheyney's History of England.

American History with the Elements of Civil Government (one unit)

As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

*Mathematics**Elementary Algebra (one and one-half units)*

I. Algebra to Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

II. Quadratics, etc.: Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

Advanced Algebra (one-half unit)

The progressions; the elementary treatment of permutations and combinations; the use of four and five place tables of logarithms; undetermined coefficients; the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents; the elementary treatment of the theory of equations.

Plane Geometry (one unit)

General text propositions, including the solution of simple original exercises and numerical problems.

Solid Geometry (one-half unit)

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles and the measurement of surfaces and solids.

Plane Trigonometry (one-half unit)

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

Physics*(One unit)*

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note-book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

Chemistry*(One unit)*

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board. The laboratory note-book must be submitted for inspection.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one modern text-book.

Requirements.—The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminum, lead, tin, iron, manganese, chromium.

The more detailed study should be confined to the italicized elements (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

Additional Subjects

Certificates will be accepted in botany, zoology, physiology, physiography, political economy, drawing, music, and other accredited subjects in secondary schools.

Manual-training High School Subjects

Technical subjects in manual-training high schools, or schools of similar grade, when duly certified, will be credited as follows:

Shopwork (not exceeding two units), domestic science and domestic art (not exceeding two units).

Business High School Subjects

Commercial subjects in business high schools or schools of similar grade, when duly certified, will be credited to the extent of four units.

ADMISSION TO ADVANCED STANDING

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

SPECIAL STUDENTS

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

SCHOLARSHIPS AND PRIZES

Applications for scholarships should be filed with the Dean of the College in which the student is to register not later than September fifteenth. All Scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term, or whose deportment is unsatisfactory, will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked. All scholarships are awarded by the Faculty of Arts and Sciences on recommendation of its Committee on Scholarships and other University aid.

Scholarships for Competition

The University offers the following scholarships to be awarded on competitive examination given at the time of the May entrance examinations. Holders of these scholarships are expected to pursue a regular course in one of the colleges of the Department of Arts and Sciences. No scholarship is awarded to a candidate whose examination average is below 80 per cent.

Kendall Scholarship.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that member of the graduating class of any of the Washington High Schools who attains the highest average in the entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the registration, laboratory, and graduation fees.

University Scholarships.—The University offers also six scholarships, to be awarded annually to members of the graduating classes of any of the Washington High Schools. These scholarships continue throughout the undergraduate course, and students holding them pay only the registration, laboratory, and graduation fees.

Scholarships for Assignment

Davis Scholarship.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

Mary Lowell Stone Scholarship.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University.

Maria M. Carter Scholarship.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

Farnham Scholarship.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

Withington Scholarship.—This scholarship was founded in 1830, by the New York Baptist Theological Seminary, to be known as the Withington scholarship. It has an annual stipend in tuition fees of sixty dollars.

Walker Scholarship.—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an annual stipend of one hundred dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

Morehouse Scholarship.—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of sixty dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

Nellie Maynard Knapp Scholarship Fund.—Established in 1915 by the Columbian women in memory of its president, Mrs. Martin A. Knapp to provide scholarships for women. Application may be made to any of the Deans in the Department of Arts and Sciences.

Henry Harding Carter Scholarships.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consists of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

Admiral Powell Endowment.—The Admiral Powell Endowment was made by Admiral Levin M. Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such

special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, to warrant officers who are preparing for examination for appointment as Ensign, to persons desiring to enter the Navy as Acting Ensigns for engineering duty, or to those who desire to fit themselves for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	HOURS
Navigation and Nautical Astronomy.....	4
Algebra and Geometry.....	6
Trigonometry.....	3
Mechanical and Machine Drawing.....	8
English.....	6
French.....	6
German.....	6
Spanish.....	6
International Law.....	6
Commercial Geography.....	6
Boilers and Power Plants.....	3
Mechanical Laboratory.....	4
Marine Engineering.....	8
Electrical Engineering.....	6

Ministerial Aid.—The University authorizes the remission of a stated amount in tuition fees, to be called Ministerial Aid, which may be given to students, resident in the District of Columbia or its immediate vicinity in the regular courses of Columbian College, preparing for the ministry and not yet ordained. Any student receiving Ministerial Aid may be called upon for clerical or like work to the extent of not more than one hour a week for every twelve dollars of tuition remitted, and of not more than four hours in any one week.

University Aid.—The University authorizes the remission of a stated amount in tuition fees, to be called University Aid, which may be loaned to undergraduate students in regular courses in the Department of Arts and Sciences, whose circumstances warrant pecuniary assistance. Any student receiving University Aid is expected to repay it as soon as possible. In occasional instances he may be enabled, while still a student, to repay it in part or whole through clerical or like service rendered the University.

Columbian Women Loan Fund.—The Columbian Women have established a fund from which money is loaned to women students, preference being given to women who have already begun work in the University

and who need assistance in continuing it. The administration of the fund remains with the Columbian Women.

PRIZES

(Only candidates for degrees may compete for these prizes)

Staughton and Elton Prizes.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

Ruggles Prizes.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

Davis Prizes.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

Daughters of the American Revolution Prizes.—These prizes founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediaeval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

The Thomas P. Walsh Prize.—This prize, established by Thomas P. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the regular classes of Mediaeval, Modern European, English, and American History, shall produce the best essay upon a designated period of the History of Ireland.

E. K. Cutter Prize.—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

Willie E. Fitch Prize.—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

The Gardiner G. Hubbard Memorial Prize.—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that member of the graduating class who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

Muth Prize.—Geo. F. Muth and Company offer a set of drawing instruments to the student who makes the highest record in Mechanical Drawing 1.

James Macbride Sterrett, Jr., Prize.—Founded by Professor James Macbride Sterrett in memory of his son, consists of a gold medal annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

The Chi Omega Prize in Philosophy.—An annual prize of fifteen dollars is offered by the Phi Alpha Chapter of the Chi Omega Fraternity for the best essay on a philosophical subject to be announced at the close of the preceding academic year by the Committee in charge. Essays must meet the requirements defined by the Committee and be submitted on or before April 1. Only women students who are members of a senior class in the Department of Arts and Sciences, and who are or have been registered in General Psychology, Logic, and the History of Philosophy, are eligible to compete.

Chi Omega Prize in Sociology.—An annual prize of fifteen dollars is offered by the Chi Omega Fraternity for the best essay on a sociological subject. All women students registered in the courses in Sociology are eligible to compete for this prize. The subjects of the essays are to be chosen by the competitors with the approval of the Professor of Sociology. The prize will be awarded by a committee of three, consisting of the Professor of Sociology, the Dean of Columbian College, and a third member selected by these two. Essays in competition for this prize must be submitted to the Professor of Sociology on or before the first of May.

Sigma Kappa English Prize.—An annual prize of a set of books to the value of ten dollars is offered by the Sigma Kappa Fraternity to the student passing the best examination in the year's work in English Rhetoric. All members of the classes in English Rhetoric are eligible for this special examination, which will be given during the final examinations.

Pi Beta Phi Prize in Political Science.—The Pi Beta Fraternity has set aside ten dollars as a prize for the best essay written during the year by a student of political science on a subject approved by the instructor. The essays must be submitted by May first.

Pi Beta Phi Prize in Education.—An annual prize of ten dollars is offered by the Pi Beta Phi Fraternity for the best essay on an educational topic. The essays will be judged by a committee of three, consisting of the Professor of Education and two others designated by him. The essays must be submitted by May first.

Davis Prize Speaking

The Davis Prize Speaking is held on the second Tuesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of five dollars, of ten dollars, and of fifteen dollars annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of Columbian College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Faculty of the Columbian College.

PRIZE AWARDS, 1916-1917

Staughton Prize.—Gertrude Catherine Fogerty.

Ruggles Prize.—Elizabeth Webb Wilson.

Davis Prizes.—First Prize, Elmer Louis Kayser; Second Prize, Dorothy Hellman; Third Prize, Elizabeth Webb Wilson.

Daughters of the American Revolution Prizes.—Mary Ellen Bontz, Bessie Whitford.

Thomas F. Walsh Prize.—Elizabeth Webb Wilson.

E. K. Cutter Prize.—Bessie Whitford.

Willie E. Fitch Prize.—James Lawrence Young.

Gardner G. Hubbard.—Elmer Louis Kayser.

Muth Prize.—William Robinson Ward, Jr.

Colonial Dames Prize.—Lisle Thomas.

James MacBride Sterrett, Jr., Prize.—Mont McConkey.

Chi Omega Prize in Sociology.—Su-Ying Chiao Wu.

Chi Omega Prize in Philosophy.—Su-Ying Chiao Wu.

Sigma Kappa Prize.—Margaret Elizabeth Whitford.

HIGH SCHOOL SCHOLARSHIP AWARDS

Kendall Scholarship.—Edith M. Petrie, McKinley Manual Training School.

First University.—Alec Horwitz, Central High School.

Second University.—Charles Geschickter, Central High School.

Third University.—Rosemary Arnold, Eastern High School.

Fourth University.—Gladys E. Phoebe, Central High School.

Fifth University.—Herbert R. Pierce, McKinley Manual Training School.

Sixth University.—Daniel B. Lloyd, Jr., Western High School.

COLLEGE CHAPEL

Chapel Services are held at 12.20 p.m., Monday, Wednesday, and Friday, throughout the academic year.

The Deans of the Colleges will confer with students as they may desire on questions concerning their welfare and will co-operate with them in all ways to make the college life one of personal helpfulness.

For catalogues, application blanks, and further information, address

THE RECORDER,
The George Washington University,
2023 G Street, Washington, D. C.

FEES

1. Annual registration fee	\$2
2. Tuition fee for each semester-hour credit of courses leading to the degrees of A.B., S.B., A.M., S.M., C.E., E.E., M.E.	6
The maximum fee charged in any one year is \$180.	
3. Tuition fee per annum for graduate courses leading to the degree of Ph.D.	180
Each separate topic.	60
Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$60 per annum for each topic pursued by them.	
4. Registration fee for students taking problems of the Beaux Arts Society.	2
5. Laboratory courses:	
Material fees:	
Experimental Psychology.	2
Geology 1, Zoology, Botany, each.	5
Chemistry 2, 3, 7, and 28; Electrical Engineering; Physics, each.	10
Chemistry 4 (Assaying).	20
Chemistry, 20, 21 and 25, each.	25
Deposits to cover breakage of apparatus issued, the amount paid in excess of breakage to be returned:	
Chemistry, 2, 3, 7, and 28, each.	10
Chemistry, 20.	15
Chemistry, 21, and 25, each.	25

Material fees—*Continued*:

6. Microscope rental in Botany and Zoology	5
7. Tuition fee for the following special course, not taken by candidates for a degree:	
Chemistry 4 (Assaying)	40
8. Fee for certificates under the seal of the University	2
9. Fee for graduation	10

The above fees are for students entering in September 1918. Students who were in attendance in 1917-18 will pay fees according to the announcements in the catalogue for 1917-18, published in March 1917.

Students are registered for the college year unless otherwise stated on the registration paper. No registration will be accepted for less than a half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during a half-year will be granted only on recommendation of the Dean and the approval of the President.*

PAYMENT OF FEES

Registration, library, and other special fees, and laboratory deposit are due in full in advance. Tuition and laboratory material fees may be paid in monthly installments in advance. Students unable to pay their fees monthly in advance will be required to furnish as security an acceptable personal or corporate bond for \$200, for which a charge of \$3. will be made. In every instance all indebtedness must be discharged on or before May 1 of the current academic year. All fees are payable at the office of the Treasurer of the University, 2101 G Street.

COLUMBIAN COLLEGE

ADMISSION

Candidates for admission to the Freshman Class in Columbian College must meet the general admission requirements (p. 37) of fifteen units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirement must include English, 3 units; Mathematics, 2½ units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

For admission to advanced standing or as special students, see p. 45.

REQUIREMENTS FOR DEGREES

The undergraduate degrees offered by Columbian College are Bachelor of Arts, and Bachelor of Science in Medicine. To be recommended for either of these degrees, the student must satisfy the admission requirements, and must complete at least one-hundred and twenty semester-hours of undergraduate courses at least twelve semester-hours of which must be completed in Columbian College. A "semester-hour" of credit is one recitation or lecture a week or one laboratory period a week for one semester. No time limit for the course is prescribed and the degree is given when the total of prescribed and elective studies is completed.

The class hours are so arranged that persons who can give only part time to college work may complete a full college course and obtain a degree. Such students usually take six years to complete the course. Classes in required and elective subjects are scheduled in the two class periods from five o'clock to six-forty. The drawing rooms and laboratories are open from nine o'clock in the morning until half past ten at night.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60) per cent of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the student shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the Faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."

FOR THE DEGREE OF BACHELOR OF ARTS

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study amounting to at least one hundred and twenty semester-hours and including a group of prescribed subjects.

There are five curriculum groups each leading to the degree of Bachelor of Arts. Every candidate for the degree of Bachelor of Arts selects one of these groups, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years are elective, subject to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the five curriculum groups is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin or two years of preparatory Latin supplemented by "Latin B" in college.

Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin the humanistic influences of the literatures of the Modern Languages.

Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary.

Group IV consists of such studies as would constitute needed preparation for the Law School, or further study in the political sciences.

Group V includes all the pre-medical subjects and is specially constituted as a regular college course in preparation for the Medical School.

(NOTE—Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

Group I, Latin

	SEMESTER HOURS
English.....	12
Foreign Languages.....	18
History.....	12

	SEMESTER HOURS
Latin*.....	12
Mathematics.....	6
Philosophy.....	6
Electives.....	54
	—
	120

Group II, Modern Languages

	SEMESTER HOURS
English.....	12
History.....	12
Modern Languages.....	24
Philosophy.....	6
Political Science or Economics.....	6
Science.....	6
Electives.....	54
	—
	120

Group III, Natural Science

	SEMESTER HOURS
English.....	6
History.....	6
Mathematics.....	12
Modern Languages.....	12
Philosophy.....	6
Science.....	18
Electives.....	60
	—
	120

Group IV, Political and Social Science

	SEMESTER HOURS
Economics and Political Science.....	18
English.....	12
History.....	12
Mathematics.....	6
Modern Languages.....	12
Philosophy.....	6
Electives.....	54
	—
	120

* Students who offer only the two elementary units of Latin for admission may qualify for Group I by taking "Latin B" in college (see p. 84), but this will not be counted as a part of the twelve semester-hours of Latin required in this Group.

Group V, Medical

	SEMESTER HOURS
Chemistry, 1 and 2, 7 and 23.....	18
English.....	12
History.....	6
Mathematics.....	6
Modern Languages (preferably French or German).....	12
Philosophy (including Psychology).....	6
Physics, 3 and 2.....	10
Zoology, 1 and 2.....	12
Electives.....	38
	120

SIX-YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS
AND BACHELOR OF LAWS

Professional courses in Law will be credited towards the degree of Bachelor of Arts to the extent of thirty semester hours. On the completion of ninety semester hours of work in college, at least twelve semester hours of which must be taken in Columbian College, including all of the required subjects in some one of the curriculum groups, and of the first year of the regular course in the Law School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of college study and three years in the Law School. The effect is to shorten the period of study for the two degrees one year.

SEVEN-YEAR COURSE FOR THE DEGREE OF BACHELOR OF ARTS
AND DOCTOR OF MEDICINE

Professional courses in Medicine will be credited towards the degree of Bachelor of Arts to the extent of thirty semester hours. On the completion of ninety semester hours of credit in college, at least twelve semester hours of which must be taken in Columbian College including all of the required subjects in Group V, and on the completion of the first year of the regular course in the Medical School, the student will receive the degree of Bachelor of Arts. This combined course contemplates three years of college study and four years in the Medical School. The effect is to shorten the period of study for the two degrees one year.

POLITICAL SCIENCE COURSES

Columbian College offers systematic instruction in the various branches of the political sciences.

The courses are designed to impart general culture and a broad grasp of public questions, and thus to provide a training that will

prove of value in commercial life, the practice of law, or public service. The work prescribed is broader than the requirement for entrance into the Consular and Diplomatic Service, so that the student who completes with credit the appropriate courses has a training that will fit him to rise to the higher positions in the service to which he may be appointed.

Regular students who are preparing for the Government Service should register for Group IV of the curriculum requirements for the degree of Bachelor of Arts, and should elect, also, the subjects named in Section 2 of the "Regulations Governing Examinations Promulgated by the Board of Examiners, December 13, 1906."

Special students who are preparing for the Consular Service examinations should register for such courses as relate to subjects named in Section 2, of the Government Regulations.

REGULATIONS GOVERNING EXAMINATIONS PROMULGATED BY THE
BOARD OF EXAMINERS, DECEMBER 13, 1906

Section 2 reads as follows: The examinations will consist of an oral and a written one, the two counting equally. The object of the oral examination will be to determine the candidate's business ability, alertness, general contemporary information, and natural fitness for the service, including moral, mental, and physical qualifications, character, address, and general education and good command of English. In this part of the examination the applications previously filed will be given due weight by the Board of Examiners, especially as evidence of the applicant's business experience and ability. The written examination will include those subjects mentioned in the Executive order, to wit, at least one modern language other than English—French, German, or Spanish;* the natural, industrial, and commercial resources and the commerce of the United States, especially with reference to possibilities of increasing and extending the foreign trade of the United States; political economy, and the elements of international, commercial, and maritime law. It will likewise include American history, government, and institutions; political and commercial geography; arithmetic (as used in commercial statistics, tariff calculations, exchange, accounts, etc.); the modern history, since 1850, of Europe, Latin America, and the Far East, with particular attention to political, commercial, and economic tendencies. In the written examination, composition, grammar, punctuation, spelling, and writing will be given attention.

Students who seek a designation for consular and diplomatic examination should apply to the Department of State for full information. Consular service examinations are held in Washington only.

SUGGESTIONS FOR FRESHMAN COURSES IN THE CURRICULUM GROUPS

Group I, Latin

Latin 1 or "B", English, History 1, 2 or 5, 6, Mathematics, French or German.

*As amended by the Board of Examiners, February 18, 1911.

Group II, Modern Languages

French, German, English, History 1, 2 or 5, 6, Chemistry 1 (or Chemistry 1 and 2).

French or German, Spanish, English, History 1, 2 or 5, 6, Mathematics.

French or German, Spanish, English, History 1, 2 or 5, 6, Economics 1 or 2.

Group III, Natural Science

Chemistry 1 and 2, Mathematics, English, French or German, History 1, 2.

Group IV, Political and Social Science

Economics 1 or 2, History 1, 2 or 5, 6, English, French or German, Mathematics.

Economics 1 or 2, Political Science, English, History 1, 2 or 5, 6, Spanish.

Economics 1 or 2, English, History 20, Mathematics, Spanish.

Group V, Medical

Chemistry 1 and 2, Zoology 1, English, French or German, Mathematics.

GENERAL SUGGESTIONS

English Rhetoric (1 or 2) is required in every curriculum group. Mathematics is required in every group except the second, History is a general requirement and it should begin with Mediaeval history, Modern Languages should be taken in a sequence of at least two years in the same language. Information about all studies is given in the alphabetical arrangement of subjects under "Courses of Instruction."

The specified subjects in the selected group should be taken in the earlier part of the college course leaving the electives for the later years. Subjects should be chosen with view to an even distribution through the days of the week. Most courses come three times a week, either on Monday, Wednesday and Friday, or on Tuesday, Thursday and Saturday. Most general culture subjects are given in two sections, one early in the day and one late. Students who have all their time for college work should take the early sections. The late sections are given in the last two periods, at five o'clock or at five-fifty o'clock, in order to afford to those employed in Government offices the opportunities of college study. Teachers in the public schools can usually take also the courses announced for four o'clock.

Fifteen hours a week is a standard amount of work for completing the college course in four years. When the college work is limited to the last two periods and the evening laboratory periods, the length of the course is generally six years.

Detailed information about fees is given on page 51.

FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

Six-year Course for the Degrees of Bachelor of Science in Medicine and Doctor of Medicine

Regular students in this course will complete in two years the prescribed work in college, at least twelve semester hours of which must be taken in Columbian College, and the four-year course in the Medical School. On the completion of this six-year course, the student will receive at the same time the degrees of Bachelor of Science in Medicine and Doctor of Medicine. The curriculum for the Freshman and Sophomore years in college, including the pre-medical requirement, is as follows:

Freshman Year

	SEMESTER HOURS
Chemistry 1 and 2.....	10
English 1 or 2.....	6
French or German.....	6
Mathematics.....	6
Zoology 1.....	6
	<hr/>
	34

Sophomore Year

	SEMESTER HOURS
Chemistry 7 and 23.....	8
French or German.....	6
Philosophy (including Psychology).....	6
Physics 3 and 2.....	10
Zoology 2.....	6
	<hr/>
	36

SPECIAL COURSE FOR ADMISSION TO THE MEDICAL SCHOOL

First Year

	SEMESTER HOURS
Chemistry 1 and 2.....	10
English 1 or 2.....	6
French or German.....	6
Zoology 1.....	6
Electives.....	2
	<hr/>
Total semester hours	30

Second Year

	SEMESTER HOURS
Physics 3 and 2.....	10
Zoology 2.....	6
Electives (preferably Psychology, Mathematics, Chemistry) .	14
	—
Total semester hours.....	30

COLLEGE OF ENGINEERING

ADMISSION

Candidates for admission to the Freshman Class in the Civil Engineering, Electrical Engineering, Mechanical Engineering and Chemical Engineering Courses are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French, German or Spanish.....	2
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Chemistry.....	1
Physics.....	1
Electives.....	4
Total.....	15

Candidates for admission to the Freshman Class in the Chemistry Course are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French, German or Spanish.....	2
Plane Geometry.....	1
Elementary Algebra.....	1½
Chemistry.....	1
Elective.....	6½
Total.....	15

Candidates for admission to the Freshman Class in the Architectural Course are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French, German or Spanish.....	2
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Electives.....	6
Total.....	15

For detailed descriptions of the requirements in each preparatory subject see pages 38-44.

For admission to advanced standing or as a special student, see page 45.

COURSES FOR A DEGREE

Six courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.
- IV. CHEMICAL ENGINEERING.
- V. CHEMISTRY.
- VI. ARCHITECTURE.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, in Mechanical Engineering, and in Architecture, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the appropriate engineering degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

The class hours are so arranged that persons who can give only part time to college work may complete a full engineering course and obtain a degree. Such students usually take six years to complete the course. Classes in all the general studies of the engineering courses and in many of the technical subjects are regularly scheduled in the two class periods from five o'clock to six-forty; and other technical courses are given in alternate years in these periods. The drawing rooms and laboratories are open from nine o'clock in the morning until half past ten at night.

REQUIREMENTS FOR A DEGREE

The arrangement of the topics in each of the regular courses for degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of Department Subjects on pages 73-114, to which reference should be made for more complete description.

CIVIL ENGINEERING COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING.

Freshman Year

	SEMESTER-HOUR CREDITS
Chemistry, 1, 7.....	10
General Chemistry and Qualitative Analysis.	
English, 1 or 2.....	6
Rhetoric.	

	SEMESTER-HOUR CREDITS
French, German or Spanish.....	6
Mechanical Drawing, 1.....	4
Mechanical Drawing.	
Mathematics, 9 or 12.....	6
Trigonometry; Analytic Geometry.	

Sophomore Year

Civil Engineering, 1, 3, 4.....	12
Surveying; Highway Engineering; Materials of Construction.	
Economics, 33.....	4
Commercial Law.	
Mechanical Drawing, 8.....	3
Descriptive Geometry.	
Mathematics, 20 or 21.....	6
Calculus.	
Physics, 1, 2.....	10
General Physics; Laboratory Physics.	

Junior Year

Applied Mathematics, 20, 21, 22.....	12
Mechanics; Hydraulics, Mechanics or Materials.	
Astronomy, 2.....	2
Practical Astronomy.	
Chemistry, 6.....	2
Metallurgy.	
Civil Engineering, 2, 22.....	16
Railroad Engineering; Theory of Structures.	
Electrical Engineering, 6.....	2
Industrial Electricity.	
Geology, 21.....	4
Engineering Geology.	

Senior Year

Civil Engineering, 21, 23, 24, 27, 28.....	30
Hydraulic Engineering; Theory of Structures; Sanitary Engineering; Reinforced Concrete; Masonry.	
Elective.....	6

DEPARTMENT OF ARTS AND SCIENCES

ELECTRICAL ENGINEERING COURSE LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Freshman Year

Identical with the Civil Engineering Course

Sophomore Year

	SEMESTER-HOUR CREDITS
Civil Engineering, 4.....	2
Materials of Construction.	
Economics, 33.....	4
Commercial Law.	
Mathematics 20 or 21.....	6
Calculus.	
Mechanical Drawing 2, 8.....	7
Machine Drawing; Descriptive Geometry.	
Mechanical Engineering, 1.....	8
Mechanism.	
Physics, 1, 2.....	10
General Physics; Laboratory Physics	

Junior Year

Applied Mathematics, 20, 21, 22.....	12
Mechanics; Hydraulics; Mechanics of Materials.	
Chemistry, 6.....	2
Metallurgy.	
Electrical Engineering, 1, 2, 4, 5.....	14
Elementary Electricity and Electrical Engineering;	
Electrical Measurements; Electrical Engineering	
Laboratory.	
Mechanical Engineering, 9, 20.....	8
Engineering Laboratory; Thermodynamics, Steam	
Boilers and Power Plant Accessories.	

Senior Year

Civil Engineering, 5, 6.....	2
Surveying Instruments; Foundations.	
Electrical Engineering, 21, 22, 23, 24, 26, 27.....	22
Alternating Currents; Electrical Distribution; Elec-	
trical Applications; Electrical Engineering Lab-	
oratory; Electric Lighting; Electric Railways.	
Mechanical Engineering, 10, 23.....	4
Engineering Laboratory; Hydraulic Machinery.	
Electives.....	7

MECHANICAL ENGINEERING COURSE LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Freshman Year

Identical with the Civil Engineering Course

Sophomore Year

	SEMESTER-HOUR CREDITS
Civil Engineering, 4.....	2
Materials of Construction.	
Economics, 33.....	4
Commercial Law.	
Mathematics, 20 or 21.....	6
Calculus.	
Mechanical Drawing 2, 8.....	7
Machine Drawing; Descriptive Geometry.	
Mechanical Engineering, 1.....	8
Mechanism.	
Physics, 1, 2.....	10
General Physics; Laboratory Physics.	

Junior Year

Applied Mathematics, 20, 21, 22.....	12
Mechanics; Hydraulics; Mechanics of Materials.	
Civil Engineering, 22.....	5
Theory of Structures.	
Mechanical Engineering, 6, 9, 20, 24, 26.....	18
Engineering Drawing; Engineering Laboratory; Thermodynamics, Steam Boilers and Power Plant Accessories; Cotton Machinery and Machine tools; Dynamics of Machinery.	

Senior Year

Chemistry, 6.....	2
Metallurgy.	
Civil Engineering, 5, 6.....	2
Surveying Instruments; Foundations.	
Electrical Engineering, 7.....	6
Dynamos and Motors.	
Mechanical Engineering, 10, 11, 23, 25, 27, 28, 29, 30, 31...	22
Engineering Laboratory; Hydraulic Machinery; Machine Design; Power Plant Design; Industrial Management; Heating and Ventilating; Gas Engines; Steam Turbines.	
Electives.....	6

**CHEMICAL ENGINEERING COURSE LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING**

Freshman year		SEMESTER-HOUR CREDITS
Architecture 2.....	2	
Free hand Drawing.		
Chemistry 1, 2.....	10	
General Chemistry; Laboratory Practice.		
English 1, or 2.....	6	
Rhetoric.		
French, German or Spanish.....	6	
Mathematics 9 or 12.....	6	
Trigonometry; Analytic Geometry.		
Mechanical Drawing, 3.....	4	
Mechanical Drawing.		
Sophomore Year		
Chemistry 3, 20.....	10	
Chemical Laboratory; Qualitative Analysis.		
Geology 1.....	4	
Mineralogy.		
Mathematics 20, or 21.....	6	
Calculus.		
Mechanical Engineering 4.....	8	
Mechanism.		
Physics 1 and 2.....	10	
General Physics; Physics Laboratory.		
Junior Year		
Applied Mathematics 20, 22.....	8	
Mechanics; Mechanics of Materials.		
Chemistry 6, 21, 23.....	14	
Metallurgy; Quantitative Analysis; Organic Chemistry.		
Economics 33.....	4	
Commercial Law.		
Electrical Engineering 1.....	4	
Elementary Mathematical Theory of Electricity.		
Mechanical Engineering 20.....	6	
Thermodynamics, Steam Boilers and Power Plant Accessories		
Senior Year		
Chemistry 24, 25, 26, 29.....	22	
Organic Chemistry; Organic Laboratory; Physical Chemistry; Industrial Chemistry.		
Mechanical Engineering.....	4	
Mechanical Laboratory.		
Electives.....	6	

CHEMICAL COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE
IN CHEMISTRY

Freshman Year

	SEMESTER-HOUR CREDITS
Architecture 2.....	4
Freehand Drawing.	
Chemistry 1, 2.....	10
General Chemistry; Laboratory Practice.	
English 1 or 2.....	6
Rhetoric.	
French, German or Spanish.....	6
Mathematics 3 or 6.....	6
College Algebra; Solid Geometry; Elementary Trigonometry.	
Mechanical Drawing 4.....	2
Mechanical Drawing.	

Sophomore Year

Chemistry 3, 20.....	10
Chemical Laboratory; Qualitative Analysis.	
French, German or Spanish.....	6
Mathematics 9 or 12.....	6
Trigonometry; Analytic Geometry.	
Physics 1 and 2, or 2 and 3.....	10
General Physics; Physics Laboratory.	
Electives.....	4

Junior Year.

Chemistry 21, (4), 23.....	12
Quantitative Analysis; Organic Chemistry.	
Economics 33.....	4
Commercial Law.	
French, German or Spanish.....	6
Geology 1.....	4
Mineralogy.	
Mathematics 20 or 21.....	6
Calculus.	
Electives.....	4

Senior Year

Chemistry 6, 24, 25, 26, 27.....	22
Metallurgy; Organic Chemistry; Organic Laboratory;	
Physical Chemistry; Stereo-Chemistry.	
Geology 2.....	4
General Geology.	
Electives.....	8

COURSE IN ARCHITECTURE LEADING TO THE DEGREE OF BACHELOR OF
SCIENCE OF ARCHITECTURE

Freshman Year

SEMESTER-HOUR
CREDITS

Architecture, 2, 3, 4.....	14
Free-hand Drawing; Architectural Drawing and Ele- mentary Design; Projections, Shades, Shadows and Perspective.	
English, 1 or 2.....	6
Rhetoric.	
French.....	6
Mathematics, 9 or 12.....	6
Trigonometry; Analytic Geometry.	

Sophomore Year

Architecture, 5, 6, 8.....	18
Architectural Design; Free-hand Drawing; History of Architecture.	
English, 7 or 8.....	6
English Literature.	
French.....	6
Geology, 2.....	4

Junior Year

Architecture, 20, 21, 22, 24, 25, 33, 41.....	30
History of Architecture; Building Construction; Sani- tation; Pen and Ink Rendering; Design; Water Color, Heating and Ventilating.	
Physics, 1 or 3.	6
General Physics.	

Senior Year

Architecture, 27 or 37, 28, 39, 40, 43, 44.....	30
Design; History of Painting and Sculpture; Building Construction; Water Color; Office Practice; Ad- vance Construction.	
Economics, 33.....	4
Commercial Law.	
Electrical Engineering, 26.....	2
Electric Lighting and Illumination.	
Electives.....	2

SPECIAL STUDENTS

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue

special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

FEEES

The annual tuition fee for a student taking courses aggregating fifteen or more hours a week throughout the year is one hundred and eighty dollars. Part time students pay in accordance with the amount of work taken, the fee being six dollars for each semester-hour credit. For courses in the laboratories there are additional laboratory fees. Full statements in regard to the fees are given on page 51.

Fees for students who entered previous to September 1918 are as stated in the catalogue published in March 1917.

TEACHERS COLLEGE

The purpose of Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

The aims of the Teachers College may be summarized as follows:

- a. To promote the knowledge of educational science.
- b. To fit students for the higher positions in the public school service.
- c. To secure to teaching the rights and prerogatives of a profession.
- d. To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

ORGANIZATION

Teachers College provides a four years' college course, the first two years of which are devoted to a foundation of general culture courses, and the last two to professional courses and to specialization in the subjects which the student expects to teach. The schedule of courses is arranged so as to meet the convenience of both full time and part time students. By attending afternoon and Saturday classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

ADMISSION

Candidates for admission to the Freshman Class in Teachers College must meet the general admission requirements (p. 37) of fifteen units. *Three of these must be in English, two and one-half in Mathematics, and two in one of the following languages: Latin, Greek, French, German, or Spanish.* The remainder of the required fifteen units may be satisfied by any accredited secondary subjects.

Persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as *special students* on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage.

ADVANCED STANDING

Students transferring from normal schools, colleges, and other schools of similar rank will be admitted to such advanced standing as the courses they have pursued warrant. Graduates of normal schools with two-year courses resting upon graduation from an approved four-year high school are granted forty-eight semester-hours of advanced standing.

For further information concerning admission as special student or to advanced standing, see p. 45.

GRADUATION

On the completion of courses of study aggregating a minimum of one hundred and twenty-four semester-hours, the University confers the degree of Bachelor of Arts and a Bachelor's Diploma in Education. These courses are partly prescribed and partly elective, and the degree is conferred when the necessary work has been completed, no time limit being set. The prescriptions are as follows:

a. In general culture subjects:

	SEMESTER HOURS
Biology*.....	6
English.....	6
Foreign Language*.....	12
History*.....	12
Psychology and Logic.....	6
Philosophy.....	6

For the subjects marked with an asterisk (*) electives may be substituted to the extent that approved secondary school work has been done in them. The foreign language requirement must fall in one language, while in history it is required that a survey of the world's history be obtained.

b. In professional subjects the following twenty semester-hours are prescribed, although teachers of experience may receive credit for Observation and Practice Teaching.

	SEMESTER HOURS
History of Education.....	4
Principles of Education }.....	4
Principles of Teaching }	
School Hygiene.....	2
Observation and Practice Teaching.....	4
Electives in Education.....	6

Graduates of approved normal schools may satisfy the requirement in the professional subjects by the completion of twelve semester-hours exclusive of the credits for Observation and Practice Teaching. These hours are elective with the advice and consent of the Dean.

c. All regular students must complete before graduation at least eighteen semester hours in a major, and at least ten semester hours in a minor subject, in addition to the first required course, if any, in the same subject.

THE TEACHER'S DIPLOMA

The Bachelor's Diploma in Education is granted in connection with the Bachelor of Arts degree (or, to students without experience in teaching, in connection with higher degrees) upon the fulfillment of the fol-

lowing condition: (1) The student must have satisfactorily completed the courses of study defined above. (2) He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

A diploma corresponding to the degree is given also in connection with higher degrees, provided a graduate student has taken a major or minor in Education, has satisfied the requirements *a*, *b* and *c* above, and has had at least two years of successful experience in teaching.

A student holding a degree from an approved college or university may, by satisfying requirements *a*, *b*, and *c* above, earn a diploma without registering for a degree.

OBSERVATION AND PRACTICE TEACHING

A demonstration school which provides ample opportunities for teaching under actual school conditions is being conducted in Saint John's Church Orphanage. The student-teachers are given full responsibility in government and instruction. Through the courtesy of the officials of the public schools, these opportunities are supplemented by systematic observation in the high and elementary schools of Washington.

EXPERIMENTAL WORK

Teachers College maintains a psychological laboratory for introductory experimental work. The equipment is specially adapted to the investigation of problems of interest to students of education.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the study of methods and other practical educational problems.

TEACHERS APPOINTMENT BUREAU

Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the University, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers.

COURSES OF INSTRUCTION

PROVIDED BY THE DEPARTMENT OF ARTS AND SCIENCES

Courses of instruction are divided into three sections.

First-section courses may be taken by third or fourth year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the bachelor's degree; they serve, however, with additional work, as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses 20 to 49, inclusive; third-section courses, 50 and upwards. The number of hours, unless otherwise specified, indicate hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one semester; laboratory hours in Chemistry and drawing count one-third unit each, in other subjects one-half unit each. Laboratories and drawing-rooms will be open from 9.15 a.m. till 10 p.m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all the preliminary requirements for the course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

Under each course is stated the number of credits for which the course is counted toward satisfying the requirements for the undergraduate degrees of Bachelor of Arts and Bachelor of Science or for the graduate degrees of Master of Arts and Master of Science or for the graduate degrees in engineering.

APPLIED MATHEMATICS

EDWIN VIVIAN DUNSTAN, C.E.....Professor
JOHN RAYMOND LAPHAM, M.S. in C.E.....Assistant Professor

Second Section. For Undergraduates and Graduates

20. *Analytical and Applied Mechanics.* (1) Statics: including composition, resolution and equilibrium of forces; center of gravity; moment of inertia. (2) Kinematics and Kinetics: including rectilinear, curvilinear and rotary motion; dynamics of machinery; work and energy; friction; impact. Four hours, first half-year. Four semester-hour credits. Professor DUNSTAN.

21. *Hydraulics.*—The theoretical principles of hydraulics; including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Two hours. Four semester-hour credits. Assistant Professor LAPHAM.

22. *Mechanics of Materials and Theory of Elasticity.*—Including elastic and ultimate strength and deformation: simple cantilever and continuous beams, columns, torsion; combined stresses; compound columns and beams, including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours, second half-year. Four semester-hour credits. Professor DUNSTAN.

ARCHAEOLOGY AND HISTORY OF ART

MITCHELL CARROLL, Ph.D.....	Professor
GERTRUDE RICHARDSON BRIGHAM, Ph.D.....	Instructor
EDGAR LEE HEWETT, D.Soc.....	Lecturer

Second Section. For Undergraduates and Graduates

20. *History of Art.*—An introductory course in the history of Architecture, sculpture and painting. Prehistoric, Classical and Renaissance, illustrated by photographs, lantern slides and casts. *Wed., Fri., at 4.* Four semester-hour credits. Professor CARROLL.

Third Section. Primarily for Graduates

50. *Pro-Seminary of Art and Archaeology.* a. Prehistoric Art and Archaeology. Six semester-hour credits. Professor CARROLL. b. History and Appreciation of Painting. Illustrated lectures on the schools of painting from the Renaissance down to the American School. Supplemented by courses of reading and visits to galleries in Washington and neighboring cities. Six semester-hour credits. Dr. BRIGHAM.

51. *American Archaeology.*—In conjunction with the School of American Archaeology in Santa Fe. Three credits. Professor CARROLL and Dr. HEWETT.

Use is made of the illustrative material in the National Museum, the Library of Congress and the Corcoran Gallery of Art. Students are invited to the open meetings of the Art and Archaeology League, and the Washington Society of the Archaeological Institute of America.

ARCHITECTURE

ALBERT BURNLEY BIBB.....	Professor
ALBERT LEWIS HARRIS, B.S. in Arch.....	Professor
VICTOR HORTA.....	Professor
BEDFORD BROWN, B.S.....	Assistant Professor
DELOS HAMILTON SMITH, M.S.....	Instructor
WILLIAM HENRY IRWIN FLEMING, B.S. in Arch.....	Instructor

First Section. Primarily for Undergraduates

2. *Freehand Drawing*.—This course consists of drawing, in charcoal from casts of simple form. Two periods. Four semester-hour credits. Professor BIBB.

Credit for this course may also be obtained by taking work at the Corcoran Gallery of Art.

3. *Architectural Drawing and Elementary Design*.—This course includes the study of the elements of Architecture including the Five Orders, the use of india ink and water color rendering. At least nine hours per week are to be spent by the student in the drafting room. Six semester-hour credits.

Criticisms by Mr. SMITH or Mr. FLEMING on Monday, Wednesday and Thursday evenings.

4. *Projections, Shades, Shadows and Perspective*.—A course in orthographic projections, shades and shadows, followed by a short course in the elements of perspective. Two periods. Four semester-hour credits.

Criticisms by Mr. SMITH or Mr. FLEMING on Wednesday evenings.

5. *Design*.—Problems of an elementary character are given to prepare the student for work in the Class Border of the Society of Beaux-Arts Architects; the rendering of these problems of this Society. At least twelve hours per week are to be spent by the student in the drafting room. Criticisms by Assistant Professor BROWN on Tuesday, Thursday and Friday evenings. Eight semester-hour credits.

6. *Free Hand Drawing*.—An advanced course in drawing from cast and life. Two periods. Four semester-hour credits. Professor BIBB.

Credit for this course may also be obtained by taking work at the Corcoran Gallery of Art.

8. *History of Architecture*.—The course is designed to trace the development of the art in Ancient Egypt, in Greece, and in Rome, and through the Byzantine, and Mediaeval periods. Tu., Th., Sat., at 5.00. Six semester-hour credits. Professor BIBB.

Second Section. For Undergraduates and Graduates

20. *History of Architecture*.—A study of the architecture of the Renaissance in its relation to Ancient and to Modern Architecture. Tu., Th., Sat., at 5.50. Six semester-hour credits. Professor BIBB.

21. *Building Construction*.—Frame buildings, details of construction, interior finish, three-fourths scale and full size details. One lecture and three hours in drafting room. Four semester-hour credits. Professor HARRIS.

22. *Sanitation*.—History of sanitation; pollution of water sources; modern plumbing practice; methods of sewage disposal, septic tank, sewage disposal fields, etc. Two lectures a week for one term. Two semester-hour credits. Professor HARRIS.

24. *Pen and Ink Rendering*.—A study of the renderings of the best pen and ink draftsmen with practice in the use of the pen as a means of Architectural expression. One period. Two semester-hour credits.

Hours of criticism selected by conference with Assistant Professor BROWN.

25. *Design*.—Plan problems, sketch problems, and archaeology problems from the Class B Plan programs of the Society of Beaux-Arts Architects. At least fifteen hours a week are to be spent by the student in the drafting room. Ten semester-hour credits. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

27. *Advanced Design*.—Plan problems and sketch problems are given from the Class A programs of the Society of Beaux-Arts Architects. The latter part of the year is devoted to a thesis, the subject being selected by the student subject to the approval of the Professor of Design. At least eighteen hours a week are to be spent by the student in the drafting room. Twelve semester-hour credits. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

28. *History of Sculpture and Painting*.—An advanced course offering a comparative study of the development of art as the expression of civilization; an outline of the lives of great artists and a critical analysis of their achievement. *Tu., Th.*, at 4.00. Four semester-hour credits. Professor BIBB.

33. *Water Color*.—A course of drawing in water color from still life and from buildings and gardens. Two periods. Four semester-hour credits. Professor BIBB.

39. *Building Construction*.—Masonry foundations, pile foundations, stone work, brick work, fire-proofing, ornamental terra cotta, plastering, specifications. One lecture and three hours in drafting room a week. Four semester-hour credits. Professor HARRIS.

40. *Water Color*.—An advanced course in water color drawing including studies from life. Two periods. Four semester-hour credits. Professor BIBB.

41. *Heating and Ventilating*.—Elementary principles of heating and ventilating; details of installation of hot air, hot water, and steam heating plants. Two lectures for one term. Two semester-hour credits. Professor HARRIS.

43. *Office Practice*.—A course of lectures on office practice, business methods of an architect and special types of buildings by the teaching staff and practicing architects of the District of Columbia. Two semester-hour credits.

44. *Advanced Construction*.—A course arranged especially for architectural students, embracing problems in the determination of beam sizes, girder and column design, grillage beam footings and the design of the simpler forms of trusses. Two semester-hour credits. Professor HARRIS.

ASTRONOMY

ASAPH HALL, JR., Ph.D.....Professor
JOHN RAYMOND LAPHAM, M.S. in C.E.....Assistant Professor

First Section. Primarily for Undergraduates

1. *Popular Astronomy*.—A course in elementary descriptive astronomy designed to give facts of general interest without the use of higher mathematics. Recitations, lectures and papers on special topics assigned to each student. Tu., Th., at 11.15. Four semester-hour credits. Assistant Professor Lapham.

2. *A Course in Practical Astronomy for Civil Engineering Students*.—Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Two lecture-recitation periods during one term. Two semester-hour credits. Assistant Professor Lapham.

Third Section. Primarily for Graduates

58. *Celestial Mechanics*.—Theory of central forces; theory of parabolic and elliptic orbits. Lectures, with reading from the works of Gauss, Oppolzer, and Moulton. Six semester-hour credits. Professor HALL.

ASTRO-PHYSICS

FREDERICK EUGENE FOWLE, JR.....Lecturer

Third Section. Primarily for Graduates

54. A lecture course on the astro-physical instruments employed in modern research. Mr. FOWLE.

BIOLOGICAL SCIENCE

PAUL BARTSCH, Ph.D.....Professor
ALBERT MANN, Ph.D.....Professor
JULIA THECKLA MACMILLAN, A.M.....Instructor
GEORGE TRAVER HARRINGTON, B.S. in Agri., B.S. in Chem.....Instructor
ALEXANDER WETMORE, A.B.....Instructor
WALDO LASALLE SCHMITT, S.B.....Instructor
EMIL GODFREY ARZBERGER, A.M.....Instructor

Botany

First Section. Primarily for Undergraduates

1. *General Botany*.—An introductory course dealing with the fundamental concepts of plant life. Representative members of the different groups of plants will be studied, and lines of evolutionary development will be emphasized. Lecture, *Th.*, at 5.00; laboratory, *Tu.*, and *Sat.*, 5.00–6.40. Six semester-hour credits. Mr. HARRINGTON.

Third Section. Primarily for Graduates

50. Original investigation in (a) Economic Botany, *Materia Medica*, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Ten semester-hour credits. Professor MANN.

Zoology

First Section. Primarily for Undergraduates

1. *Systematic Zoology*.—Invertebrates. This includes lectures and laboratory work. The lectures cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, *Mon.*, at 5.00; laboratory, *Wed.*, *Fri.*, 5.00–6.40. Additional laboratory sections at hours to be announced. Six semester-hour credits. Professor BARTSCH, Mr. SCHMITT and Miss MACMILLAN.

2. *Systematic Zoology*.—Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrates, and correlated with these is the study and dissection of typical specimens of each group. Lecture, *Mon.*, at 5.50; laboratory *Wed.*, *Fri.*, 5.00–6.40. Additional laboratory sections at hours to be announced. Six semester-hour credits. Professor BARTSCH, Mr. SCHMITT, Mr. WETMORE and Miss MACMILLAN.

Second Section. For Undergraduates and Graduates

20. *Practical Zoology*.—A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoology. Open to all students. One hour. Two semester-hour credits. Professor BARTSCH.

23. *Ornithology*.—A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing

the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Four semester-hour credits. Professor BARTSCH.

Laboratory courses in histology and physiology will be arranged for competent students.

Third Section. Primarily for Graduates

50. Courses may be arranged for competent graduates. Ten semester-hour credits. Professor BARTSCH.

CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....	Professor
FRANK WIGGLESWORTH CLARKE, Sc.D.....	Professor
NEVIL MONROE HOPKINS, Ph.D.....	Assistant Professor
EDWIN ALLSTON HILL, Ph.D.....	Assistant Professor
OTIS DOW SWETT, LL.M., S.M.....	Assistant Professor
HIRAM COLVER MCNIEL, Ph.D.....	Assistant Professor
EDWARD ROGERS NOYES, M.D.....	Assistant Professor
HENRY ALBERT LEPPER, S.B.....	Assistant
ELLA MORGAN AUSTIN ENLWS, S.M.....	Assistant

First Section. Primarily for Undergraduates

1. *General Chemistry*.—A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic and technical chemistry. *Tu., Th., Sat.*, at 4.50. Six semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

2. *Laboratory Practice*.—A laboratory course for the study of the principles of chemistry and the method of conducting chemical experiment. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Four semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

3. *Preparation and Study of the Properties of Chemical Substances*.—A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Four semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

4. *Assaying and Metallurgy of the Precious Metals*.—Carried on by the method used by the Government Assayers, the Laboratory being fitted up on the plan of that of the United States Mint. Twelve hours for three months. Professor MUNROE, Assistant Professor SWETT.

5. *Principles of Analysis*.—Lecture. One hour. Two semester-hour credits. Professor MUNROE.

6. *Metallurgy of Iron and Steel*.—A course of lectures and readings. *Tu.*, at 6.00. Two semester-hour credits. Professor MUNROE.

7. *Qualitative Analysis*.—A brief course intended primarily for students in engineering. Two three-hour periods. *Tu.*, *Th.*, at 1.30 or at 7. Four semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

Second Section. For Undergraduates and Graduates.

20. *Qualitative Analysis*.—A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Six semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

21. *Quantitative Analysis*.—A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Eight semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

23. *Organic Chemistry*.—Advanced course. *Wed.*, *Fri.*, at 4.50. Four semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

24. *Organic Chemistry*.—Advanced course. A continuation of Course 23. *Th.*, *Sat.*, at 6.00. Four semester-hour credits. Professor MUNROE, Assistant Professor SWETT.

25. *Chemistry of the Carbon Compounds*.—A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Eight semester-hour credits. Professor MUNROE, Assistant Professor SWETT, Mr. LEPPER.

26. *Physical Chemistry*.—A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the ionic theory, electro-chemistry, the law of mass action, and the phase rule. *Mon.*, and *Wed.*, at 6.00. Four semester-hour credits. Assistant Professor McNEIL.

27. *Stereo-Chemistry*.—This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Four semester-hour credits. Assistant Professor HILL.

28. *Biochemistry*.—A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Six semester-hour credits. Assistant Professor NOYES.

29. *Industrial Chemistry*.—This course deals with the manufacture of substances styled "chemicals" and with the application of chemistry

to the arts and industries. Six semester-hour credits. Not given in 1918-19.

30. *Physical Chemistry*.—A laboratory course, designed to illustrate and supplement Chemistry 26; and especially adapted to the needs of those students who have taken, or are taking that course. Two three-hour periods. Four semester-hour credits. Assistant Professor HILL.

Third Section. Primarily for Graduates

50. *Explosive Substances*.—Ten semester-hour credits. Professor MUNROE.

51. *Analytical Methods*.—Ten semester-hour credits. Professor MUNROE.

52. *Chemical Economics and Statistics*.—Six semester-hour credits. Professor MUNROE.

53. *Development of the Theory of the Constitution of the Natural Silicates*.—Ten semester-hour credits. Professor CLARKE.

55. *Special Researches in Electro-Chemistry*.—Ten semester-hour credits. Assistant Professor HOPKINS.

56. *Physiological Chemistry*. Ten semester-hour credits. Professor MUNROE.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington which are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p.m., and also the meetings of the Chemical Society of the George Washington University which is a most active and efficient student organization.

CIVIL ENGINEERING

EDWIN VIVIAN DUNSTAN, C.E.....	Professor
OSCAR ALEXANDER MECHLIN, C.E.....	Professor
JOHN RAYMOND LAPHAM, M.S. in C.E.....	Assistant Professor
EARL GORDON MARSH, C.E.....	Instructor

First Section. Primarily for Undergraduates

1. *Surveying and Mapping*.—This course includes recitations, field and drawing room work. The recitations will cover the theory, adjustment and use of instruments; land, city, topographic, mine, hydrographic and geodetic surveying. The field work includes the adjustment of instruments, the use of the level, transit and compass. Data is taken for a map covering an area of about one-quarter square mile. The computations cover problems in the closing of traverses, computing areas, reduction and plotting of field notes. Two recitations a week; field and drawing room work equivalent to one three-hour period a week throughout the year. Six semester-hour credits. Mr. MARSH.

2. *Railroad Engineering*.—This course includes recitations, field and drawing room work. The recitations cover railroad curves and earth-work, methods of location and construction of railway lines. The field work consists in a preliminary and location survey of about one mile of railway; the laying out of circular and transition curves, etc. The computations and mapping consist of making an estimate of quantities and cost of a piece of line, making maps, profiles and a mass diagram. Two lecture-recitations and one three-hour field or drawing period a week throughout the year. Six semester-hour credits. Assistant Professor LAPHAM.

3. *Highways and Pavements*.—This course comprises the study of highway economics, location, construction and maintenance; the various methods of surfacing; the materials used and the standard tests of these materials. A study is also made of the methods of street paving, street grades, etc. Two hours a week. Four semester-hour credits. Mr. MARSH.

4. *Materials of Construction*.—A course in the study of the chemical and physical properties of: stone, brick, lime, wood, iron, steel and a few of the minor alloys. Stress is laid on the manufacture and the properties of the materials that affect their use in engineering construction. The class room work is supplemented by laboratory tests and by inspection trips to testing laboratories and manufacturing plants. Two hours a week during the second semester. Two semester-hour credits. Assistant Professor LAPHAM.

5. *Surveying Instruments*.—A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours. One semester-hour credit. Assistant Professor LAPHAM.

6. *Foundations*.—A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours. One semester-hour credit. Assistant Professor LAPHAM.

Second Section. For Undergraduates and Graduates

21. *Hydraulic Engineering*.—The design and construction of water-power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing system; water rights and irrigation law. Two lectures and one design period. Six semester-hour credits. Assistant Professor LAPHAM.

22. *Structures*.—A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods. Ten semester-hour credits. Mechanical engineering students take only the first term. Five credits. Professor DUNSTAN.

23. *Structures*.—Design of structures in timber and steel. About two months is devoted to the design of timber trestles, roof trusses and slow-burning building construction; the remainder of the year to steel design of mill and office buildings; girder, riveted and pin-connected bridges. Three lectures and two design periods. Ten semester-hour credits. Professor DUNSTAN.

24. *Sanitary Engineering*.—Water supply: the collection, storage and distribution of water; the design and construction of dams, reservoirs and storage tanks; construction and maintenance of water distributing systems; pumping machinery; quality of water; interpretation of water analyses; sedimentation and aëration of water; sand filtration; mechanical filtration; chemical treatment of water; the relation of water supply to infectious diseases.

Sewerage: house plumbing, heating and ventilation; sewerage and drainage systems; methods of disposal of sewage and trade wastes; treatment of sewage; garbage and refuse disposal. Three lectures and one design period. Eight semester-hour credits. Assistant Professor LAPHAM.

27. *Reinforced Concrete Construction*.—The theory and design of reinforced concrete slabs, beams, and columns. Two recitations and one design period during the first semester. Three semester-hour credits. Assistant Professor LAPHAM.

28. *Masonry Construction*.—A study of brick and stone masonry, theory of foundations, piles and pile driving, caissons, coffer-dams, etc. The design of bridge piers, abutments, retaining walls, culverts and other similar structures. Two recitations and one design period a week during the second semester. Three semester-hour credits. Assistant Professor LAPHAM.

Third Section. Primarily for Graduates.

50. *Reinforced Concrete Structures*.—Theory and design; buildings, bridges, retaining walls, dams, tanks, etc. One lecture and two design periods. Six semester-hour credits. Professor DUNSTAN.

51. *Advanced Steel Structures*.—Theory and design of suspension, cantilever, movable and arch bridges. One lecture and two design periods. Six semester-hour credits. Professor DUNSTAN.

52. *Architectural Engineering*.—Mechanical equipment of buildings; calculations and design of the plumbing, water supply, heating, ventilating, and electrical equipment. Two lectures and one design period. Six semester-hour credits. Professor MECHLIN.

53. *Railroad Engineering*.—An advanced course in railroad location, construction, and maintenance of way. It must be preceded by Civil Engineering course 2. Six semester-hour credits. Assistant Professor LAPHAM.

54. *Water and Sewage Purifications.* An advanced course dealing with the practical application of the principles and methods involved in the purification of water supplies and in the disposal and treatment of sewage. One lecture and two design periods. Six semester-hour credits.

CLASSICAL LANGUAGES AND LITERATURES

CHARLES SIDNEY SMITH, Ph.D. Professor

Greek

First Section. Primarily for Undergraduates

A. *Elementary Course.*—For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirement in Greek, with the exception of Homer. *Mon., Wed., Fri.,* at 10.15. Six semester-hour credits. Not given in 1918-19.

B. *Homer: Iliad I-IV.*—For students who have taken Course A and desire to prepare themselves to enter Course 1. *Tu., Th.,* at 9.15. Six semester-hour credits.

1. Herodotus (selections); Lysias (selected orations); Euripides (*Alcestis*); Greek prose composition. *Mon. Wed., Fri.,* at 2.45. Six semester-hour credits.

2. Xenophon (*Memorabilia*); Thucydides (*Book VII*); Sophocles (*Antigone*). *Mon., Wed., Fri.,* at 11.15. Six semester-hour credits.

Second Section. For Undergraduates and Graduates.

20. Plato (selections, including the *Apology* and *Crito*); Aristophanes (*Clouds* or *Frogs*). *Tu., Th.,* at 1.45. Four semester-hour credits. Not given in 1918-19.

21. Demosthenes (selected orations); Lucian (selected dialogues); Homer (selections). *Tu., Th.,* at 1.45. Four semester-hour credits.

Latin

First Section. Primarily for Undergraduates

B. *Cicero's Orations and Vergil's Aeneid.*—For students who have satisfied the admission requirements in elementary Latin but have not done the work specified under the advanced requirements. It will include a thorough study of several of the *Orations* and of three or four books of the *Aeneid*, supplemented by private reading, and some practice in the writing of Latin. *Tu., Th., Sat.,* at 11.15. Six semester-hour credits.

1. Livy (*Books I and XXI*); Cicero (*De Senectute*); Horace (*Odes and Epodes*); Latin prose composition. Open to students who have satisfied the admission requirements in elementary and advanced Latin,

or have satisfactorily completed course B. *Mon., Wed., Fri.*, at 1.45. Six semester-hour credits.

2. Cicero and Pliny (selected Letters); Horace (Satires and Epistles); Martial (selections). *Mon. Wed., Fri.*, at 3.45. Six semester-hour credits.

Second Section. For Undergraduates and Graduates

20. Tacitus (selections); Terence (Phormio); Plautus (Captivi). *Tu., Th.*, at 10.15. Four semester-hour credits.

21. Quintilian, Book X, and Horace, *Ars Poetica*; Catullus, Tibullus and Propertius. *Tu., Th.*, at 10.15. Four semester-hour credits. Not given in 1918-19.

22. *Advanced Latin Composition and Reading at Sight*.—Practice in Latin expression and style. *Th.*, at 2.45. Two semester-hour credits.

Third Section. Primarily for Graduates

The work in this Section is designed to afford discipline in the methods of philological criticism, with special reference to the interpretation of classical authors, and will include opportunities for original research on the part of competent students. In order to make the work as helpful as possible for those who expect to become teachers, the center of study each year will be one of the authors usually taught in the secondary schools. With the approval of the instructor, properly qualified Seniors may be admitted to these courses. The authors selected are as follows:

50. *Vergil, and Roman Epic Poetry*.—Two hours. Six semester-hour credits.

51. *Caesar, and the Roman Historians*.—Two hours. Six semester-hour credits. Not given in 1918-19.

52. *Cicero, and Roman Oratory*.—Two hours. Six semester-hour credits.

Classical Literature

First Section. Primarily for Undergraduates

1. *General Survey of Classical Greek Literature (in English)*.—This course is designed to give an outline of the development of the different departments of literature in ancient Greece and will include selected readings, in translation, from the most important authors. Being primarily intended for students who are not taking Greek or Latin, it does not require a knowledge of those languages, and is open to all undergraduates as an elective. *Tu., Th.*, at 4. Four semester-hour credits.

2. *General Survey of Latin Literature (in English)*.—This course is similar in purpose and method to Course 1, and will alternate with it. The subject of study will be the work of the most important ancient

Roman authors. *Tu., Th.*, at 4. Four semester-hour credits. Not given in 1918-19.

ECONOMICS AND SOCIOLOGY

ROBERT RUSS KERN, A.B.....Professor
L. RUSSELL ALDEN, A.M., L.L.B.....Assistant Professor
CLARENCE CAMERON KOCHENDERFER, A.M.....Assistant Professor

First Section. Primarily for Undergraduates

1. *General Economics*.—An outline course in the principles of political economy, devoted mainly to the study of production and exchange under present-day conditions, followed by a study of the problems of rent, interest, wages, and profits, and including an examination of competition, private property, and economic programs. *Mon., Wed.*, at 11.15. Six semester-hour credits. Professor KERN. *Fri.*,

2. Parallel with course 1. *Mon., Wed., Fri.*, at 5.50. Six semester hour credits. Professor KERN.

Second Section. For Undergraduates and Graduates

22. *General Sociology*.—An outline course in the principles of sociology devoted mainly to an examination of the organization of society and its ideals, with a study of the social systems, their functions, efficiencies and programs for their development. First half-year. *Tu., Th.*, at 5.00. Two semester-hour credits. Professor KERN.

23. *Modern Social Problems*.—A further analysis of modern social conditions with special studies of current questions in sociology. Prerequisite, the course in general sociology. Two hours, second half-year. *Tu., Th.*, at 5.00. Two semester-hour credits. Professor KERN.

24. *The History of Economic Thought*.—A review of the development of economics as a science from the earliest times to the present. Lectures and library readings. Two hours, first half-year. Given in alternate years. Not given in 1918-19. Professor KERN.

26. *Public Finance*.—A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. Second half-year. *Tu., Th.*, at 5.50. Two semester-hour credits. Professor KERN.

27. *Money and Banking*.—The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. First half-year. *Tu., Th.*, at 5.50. Two semester hour credits. Professor KERN.

28. *Economic Problems*.—An advanced course devoted to a more thorough study of the problems developed in the general course in economics. Research and preparation of papers to be presented to the class for discussion and criticism. Credit for course 1, General Economics, is requisite for admission to this course. Not given in 1918-19. Professor KERN.

33. *Commercial and Maritime Law*.—A study of the principles of the law relating to commercial transactions, especially contracts, sales, bailments, agency, partnership, negotiable instruments, and common carriers, with some study of admiralty law. Tu., Th., at 5.50. Four semester-hour credits. Assistant Professor ALDEN.

36. *Commercial Geography and Economic Resources*.—During the first term, a general survey is made of the products, industries, and commerce of the United States and of the principal foreign countries. This survey is supplemented during the second term by a detailed study of agriculture, mining, and manufactures throughout the world, but with special reference to the United States; separate treatment of each important crop and branch of manufactures, with inquiry into the causes of the localization of industry. Mon., Wed., Fri., at 5.50. Six semester-hour credits. Assistant Professor KOCHENDERFER.

40. *Economic History of the United States*.—Development of agriculture from staple crops to diversified farming. Settlement of public lands; immigration. Introduction of manufactures; development since the Civil War; characteristics. Commerce; agricultural products giving way to manufactured articles. Tariff history and policy. Mon., Wed., Fri., at 5.00, first half-year. Three semester-hour credits. Assistant Professor KOCHENDERFER.

42. *Economic Background of World Politics*.—A somewhat detailed study of the awakening of Japan, the problem of China, the interplay of rival imperial ambitions in the Far East, the Bagdad Railway scheme, and South American problems. The introductory portion of the course will deal with agrarian problems, immigration, commercial policies, economic and social reform measures of Modern European governments. Second half-year. Mon., Wed., Fri., at 5.00. Three semester-hour credits. Assistant Professor KOCHENDERFER.

43. *Combinations, Trusts*.—A discussion of the conditions which have favored the growth of large business combinations, the nature of their organization, their influence upon prices and productive efficiency, and the regulation and supervision of them. First half-year. Mon., Fri., at 9.15. Two semester-hour credits. Professor KERN.

44. *Labor Problems*.—A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: child labor; dangerous occupations; workingmen's insurance against sickness, old age, accidents, and unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Second half-year. Mon., Fri., at 9.15. Two semester-hour credits. Professor KERN.

45. *History of Commerce*.—The rise and progress of commerce from antiquity to modern times, with particular emphasis on the effects of commerce on civilization and the relations between commercial and political development. First half-year. *Tu., Th., Sat.*, at 9.15. Three semester-hour credits. Assistant Professor KOCHENDERFER.

46. *Economic Background of World Politics*.—Parallel with course 42. Second semester. *Tu., Th., Sat.*, at 9.15. Three semester-hour credits.

47. *Government Control of Commerce and Industry*.—A study of the various aspects of monopoly and competition. Incorporation and regulation of companies, common law and trusts, the anti-trust acts and their results. Development and control of water transportation in the United States and Europe. Railroad construction, competition, combination, regulation, rates, discrimination, government ownership. Inland waterways, ocean carriage, subsidies, rebates, pools, etc. First half-year. *Tu., Th., Sat.*, at 5.00. Three semester-hour credits. Assistant Professor KOCHENDERFER.

48. *Finance and Accounting*.—General principles of accounting, the more important forms of commercial paper and business methods. The course comprehends theory of debit and credit, classification of accounts, underlying principles of various accounting records, problems of the balance sheet and income statement, types of business organization and the methods of accounting and auditing applicable thereto. Second half-year. *Tu., Th., Sat.*, 5.00. Three semester-hour credits. Assistant Professor KOCHENDERFER.

Third Section. Primarily for Graduates

51. *Seminar in Sociology*.—A research course for the detailed investigation of special sociological problems, suitable for those who are engaged in original investigation or in the preparation of a thesis. Hours to be arranged. Six semester-hour credits. Professor KERN.

52. A research course in Corporation Finance and trade problems especially designed to meet the needs of graduate students and seniors majoring in economics. Special opportunities will be accorded students writing theses in the field of economics. Hours to be arranged. Four semester-hour credits. Assistant Professor KOCHENDERFER.

EDUCATION

WILLIAM CARL RUEDIGER, Ph.D.....	Professor
WILLARD STANTON SMALL, Ph.D.....	Lecturer
ARTHUR DEERIN CALL, A.M.....	Lecturer
MARIETTA STOCKARD ALBION, A.B.....	Lecturer
HARRIET UNDERWOOD SYMONDS, A.M.....	Lecturer

Second Section. For Undergraduates and Graduates

20a. *Principles of Teaching*.—A comprehensive course in the principles underlying the teaching process in its intellectual, emotional and

motor phases. Special attention is given to making teaching concrete and meaningful. First half-year. *Mon., Wed., Fri.*, at 11.15. Three semester-hour credits. Professor RUEDIGER.

20b. *Principles of Education*.—A comprehensive course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. Second half-year. *Mon. Wed., Fri.*, at 11.15. Three semester-hour credits. Professor RUEDIGER.

21a. *Principles of Teaching*.—A brief course in the psychological and logical principles underlying the teaching process. First half-year. *Tu., Th.*, at 4.00. Two semester-hour credits. Professor RUEDIGER.

21b. *Principles of Education*.—A brief course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. Second half-year. *Tu., Th.*, at 4.00. Two semester-hour credits. Professor RUEDIGER.

(Courses 20 and 21 should be preceded or accompanied by general psychology. Course 21 is designed especially for teachers in service.)

22. *History of Education*.—A general course in the historical development of educational theory and practice. *Sat.*, 9.15-11.15. Four semester-hour credits. Professor RUEDIGER.

24. *School Sanitation and Hygiene*.—A survey of the relations of education and health, including: The function of the school in promoting health; physical examination of children; medical inspection; physical education; diseases and defects incident to school life; the organization of instruction as related to fatigue; defective children; schoolhouse construction and sanitation. Lectures, reference work, and reports. *Mon.*, at 5.00. Two semester-hour credits. Dr. SMALL.

25. *Secondary Education*.—After sketching the meaning and significance of secondary education as revealed by educational theory, by the secondary schools of Germany, France, and England, and by the history of secondary education in America, the course will consider in some detail the educational values, essential content, and methods of teaching the various high school branches. The problems of essential minima, of the connection of the studies with life, and of the development of initiative in the student will be emphasized. 1917-18. Four semester-hour credits. Dr. SMALL.

27. *School Administration*.—The public school system: Its development; economic and political relations; organization of administration, financial and educational; problems of administration. Lectures, assigned reading, and reports. *Wed.*, at 5.00. Dr. SMALL.

28. *Experimental Education*.—A laboratory course on processes of learning, transfer of practice, association, memory, etc. Special emphasis will be laid upon practical work with the Binet and other mental tests. Three semester-hour credits. 1917-18. (See Psychology 25.) Professor RUEDIGER and Mrs. SYMONDS.

29. *Educational Story Telling*.—Study of type stories, adaptation of stories, practical story telling. It is the purpose of the course to de-

velop a basis for the selection and presentation of suitable children's literature, taking into consideration the various stages of the child's development. Lectures, required reading and reports. 1917-18 Four semester-hour credits. Mrs. ALBION.

30. *Story Telling and Children's Literature*.—Study of Epics—Iliad, Odyssey, and Kalevalla. Retelling, possible dramatization.

Part of the course will be given to a discussion of reading and reading books with a view to supplementing with stories and units of literature. It will be the purpose to work toward a solution of the problem of developing in the child a higher appreciation of the best in literature and a real love of books through his school reading. The course will extend and supplement course 29 but will be open to all upper class students. 1917-18. Four semester-hour credits. Mrs. ALBION.

33. *Ethical Principles in Education*.—The aim of this course is to promote a deeper professional spirit by stimulating the professional cast of mind. Some of the topics to be studied are: the meaning of ethics; maxims for an ethical code; ethical elements in self-culture; various ethical interpretations of the moral ideal; ethical elements in the advancement of truth; ethics of veracity; the ethics of example; the ethics of charity; ethics and the solution of crime; the ethical value of the state; the ethical interpretation of society; the rise of moral enthusiasm; ethical values in public education. 1917-18. Two semester-hour credits. Mr. CALL.

34. *Observation*.—Observation of experienced teachers, under guidance, in the elementary and secondary schools of the city. The course should normally be taken in the junior year. Two semester-hour credits Professor RUEDIGER.

35. *Practice Teaching*.—Opportunity for practice teaching under supervision and criticism is provided in the University Demonstration School. The course should normally be taken in the senior year. Two semester-hour credits. Professor RUEDIGER.

(The students taking courses 34 and 35 will meet together once a week for conference and discussion.)

Third Section. Primarily for Graduates

50. *Seminar in Education*.—First Semester. A topical study of the leading periods in the History of Education. Second Semester. The application of statistical methods to the study of educational problems. Open to qualified undergraduates. Tu., Th., at 5.00. Six semester-hour credits. Professor RUEDIGER.

ELECTRICAL ENGINEERING

LOUIS COHEN, B.S. in E.E.....Professor of Radio-electricity
CARL FALSTER HANSON, M.S. in E.E.....Instructor
GUY TURNER MORRIS, M.S.....Instructor

First Section. Primarily for Undergraduates

1. *Elementary Mathematical Theory of Electricity and Magnetism.*—Elementary electricity and magnetism is studied with special attention to the needs of engineering students. The phenomena accompanying static electricity are noted. Problems illustrating the theory and having practical application are required to be solved. Prerequisite: Physics 1. Two hours. Four semester-hour credits.

2. *Elements of Electricity; Direct Current Motors and Generators; Design Work.*—Elements of electricity are studied during the first term and especial emphasis is laid upon the principles underlying the flow of currents. During the second term a study is made of direct current generators and motors, covering the laws of the magnetic circuit as applied to the dynamo. The course includes the design of electrical machinery and apparatus. An introductory study of alternating currents is also begun. Numerous problems are assigned throughout the course. Prerequisite: Physics 1. Three hours. Six semester-hour credits.

4. *Electrical Measurements.*—A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes are used for reference. Two three-hour periods, first half-year. Two semester-hour credits.

5. *Electrical Laboratory.*—Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Two three-hour periods, second half-year. Two semester-hour credits.

6. *Industrial Electricity.*—A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electrical railways and other applications of electric motors. Prerequisite: Physics, 1. Two hours, first half-year. Two semester-hour credits.

7. *Electrical Engineering.*—A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Prerequisite: Physics, 1. Three hours. Six semester-hour credits.

8. *Electrical Design.*—A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. Two semester-hour credits.

Second Section. For Undergraduates and Graduates

21. *Alternating Current Theory and Machinery.*—A course for Seniors in Electrical Engineering, covering the principles of single as well as

polyphase currents, including study of machines, circuits, transformers, etc. Four hours. Eight semester-hour credits.

22. *Electrical Distribution*.—A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Ferguson's Elements of Electrical Transmission. One hour. Two semester-hour credits.

23. *Electrical Applications*.—A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour. Two semester-hour credits.

24. *Advanced Laboratory Work for Seniors in the Electrical Engineering Course*.—Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's Laboratory and Factory Tests in Electrical Engineering, with Foster's Electrical Engineer's Hand-book for general reference. Two three-hour periods. Four semester-hour credits.

25. *Inspection of Plants and Industrial Works*.—In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written description submitted by the students.

26. *Electric Lighting and Illumination*.—A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours. Four semester-hour credits.

27. *Electric Railways*.—A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours, second half-year. Two semester-hour credits.

Third Section. Primarily for Graduates

50. *Radio-electricity*.—A mathematical treatment of the fundamental principles with an exposition of their application to present day practice. Problems based on the methods used and the apparatus employed in the generation of oscillatory currents; the reception of signals; and other features developed in the utilization of this method of transmission will be discussed. Six semester-hour credits, as a Minor, ten semester-hour credits, as a Major. Professor COHEN.

53. *Advanced Course in Polyphase Currents*.—Six semester-hour credits.

54. *Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus*.—Six semester-hour credits.

ENGLISH

WILLIAM ALLEN WILBUR, A.M., Litt.D.,.....	Professor
DE WITT CLINTON CROISSANT, Ph.D.....	Professor
RICHARD COBB, A.B. (1917-18).....	Professor
RALPH WEBSTER BENTON, A.B.....	Assistant

First Section. Primarily for Undergraduates

1. *English Rhetoric*.—A study of the principles of self expression through language with practice in composition. *Tu., Th., Sat.*, at 10.15. Six semester-hour credits. Professor WILBUR and Mr. BENTON.

2. *English Rhetoric*.—Parallel with Course 1. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Professor WILBUR and Mr. BENTON.

NOTE.—Credit for Course 1 or 2 is requisite for admission to any other course in English except 5.

5. *Survey of English Literature*.—*Mon., Wed., Fri.*, at 1.45. Six semester-hour credits. Professor CROISSANT.

7. *Survey of English and American Literature*.—*Mon., Wed., Fri.*, at 2.45. Six semester-hour credits. Not given 1918-1919. Professor COBB.

8. *Survey of English and American Literature*.—Parallel with Course 7. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Not given in 1918-1919. Professor COBB.

Second Section. For Undergraduates and Graduates

20. *English Composition*.—*Tu.*, at 11.15 and conferences. Six semester-hour credits. Not given in 1918-1919. Professor COBB.

22. *Shakespeare*.—1918-1919, The Comedies. 1919-1920, The Tragedies. (The Temple edition of Shakespeare is recommended.) *Mon., Wed., Fri.*, at 10.15. Six semester-hour credits. Professor WILBUR.

27. *Humanistic Studies*.—1918-1919, The European drama, ancient and modern. 1919-1920, The Epic. *Tu., Th., Sat.*, at 9.15. Six semester-hour credits. Professor CROISSANT.

28. *Humanistic Studies*.—1918-1919, Nineteenth century English prose. 1919-1920, Nineteenth century poetry. Six semester-hour credits. *Mon., Wed., Fri.*, at 5.50. Professor CROISSANT.

29. *The English Drama*.—Not given in 1918-1919. The modern drama from 1870 to the present, including Continental, British, and American writers. 1919-1920, The English drama from the beginning to 1870. *Mon., Wed., Fri.*, at 4.00. Six semester-hour credits. Professor CROISSANT.

31. *Journalism*.—The fundamentals of newspaper writing. *Tu., Th., Sat.*, at 11.15. Six semester-hour credits. Professor CROISSANT.

33. *American Literature*.—Lectures and collateral reading. *Mon., Wed., Fri.*, at 4.00. Six semester-hour credits. Professor CROISSANT.

Third Section. Primarily for Graduates

51. *Seminar in English*.—Problems in English Literature for graduates engaged in individual research.

54. "*The Prelude*," first half-year. "*The Ring and the Book*," second half-year. *Tu., Th.*, at 5.00. Four semester-hour credits. Professor WILBUR.

ETHNOLOGY

TRUMAN MICHELSON, Ph.D.....Professor

Third Section. Primarily for Graduates

50. *General Introduction to Ethnology*.—A general course embracing man's place in nature; sociology, religious ideas, ethical ideas, and languages of primitive peoples; the beginnings of literature and art; linguistic survey of the world; ethnological survey of the world; discussion of the problems of independent origins versus diffusion: the classical British, Graebnerian, and American schools. Lectures and collateral readings. *Tu., Th., Sat.*, at 5.00. Six semester-hour credits. Professor MICHELSON.

51. *Outlines of North-American Ethnology*.—As full a description of the aborigines of North America as the time will permit. Lectures and assigned readings. *Mon., Wed.*, at 5.00. Four semester-hour credits. Professor MICHELSON.

52. *American Indian Languages*.—This is an introductory course, and presupposes only a moderate amount of previous linguistic training. After a brief introduction to the subject, two stocks will be studied, one in each half-year. *Two hours a week*. Four semester-hour credits. Professor MICHELSON.

53. *American Indian Languages* (second course).—This is an advanced course, and members must have taken course 52, unless they have done an equivalent elsewhere. *One hour a week*. Two semester-hour credits. Professor MICHELSON.

54. *Seminar in Ethnology*.—Competent students will be assigned topics, and the results discussed at a weekly meeting. Four semester-hour credits. Professor MICHELSON.

FRENCH

See Romance Languages

GEOLOGY AND MINERALOGY

RAY SMITH BASSLER, Ph.D.....Professor
 CHARLES ELMER RESSER, Ph.D.....Instructor

First Section. Primarily for Undergraduates

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. Text book: *Mineralogy, Crystallography, and Blowpipe Analysis* by Moses and Parsons. *Mon., Fri.*, at 5.00. Four semester-hour credits. Professor BASSLER and Dr. RESSER.

2. *Geology*.—Systematic geology; dynamical, structural and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-book: *Cleland's Geology: Mon., Fri.*, at 5.50. Four semester-hour credits. Professor BASSLER and Dr. RESSER.

3. *General Geography*.—This course presents the principles of geography by a study of the phenomena of the earth as a whole, the interrelations of these phenomena and their influence upon human affairs. It consists of two parts, first, a study of the general geographic principles—earth relations, physiography, climate, life and human activities, and second, a brief survey of several regions and countries for the application of these principles. It is a general culture lecture course illustrated by charts and lantern slides. No course is prerequisite. *Wed.*, at 5.00. Two semester-hour credits. Dr. RESSER.

Second Section. For Undergraduates and Graduates

20. *Economic Geology*.—[Geology 1 and 2 and Chemistry 1 are prerequisite for this course.] The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: *Lindgren's Mineral Deposits. Mon., Fri.*, at 5.00. Given in alternate years. Four semester-hour credits. Professor BASSLER and Dr. RESSER.

21. *Engineering Geology*.—This course is intended primarily for civil engineers and others interested in applied geology. The work covers the general principles of geology with special emphasis upon those relating to engineering problems. The structure of rocks relative to building operations, the controlling factors of water supply and water purification and similar problems are discussed in detail. Text-book, *Engineering Geology* by Ries and Watson. *Mon., Fri.*, at 4.00. Four semester-hour credits. Dr. RESSER.

22. *Paleontology*.—A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Six semester-hour credits. Professor BASSLER.

Third Section. Primarily for Graduates

50. *Advanced Geology and Paleontology*.—The student in this course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. Four semester-hour credits. Professor BASSLER.

GERMANIC LANGUAGES AND LITERATURE

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor
ALFRED FRANCIS WILLIAM SCHMIDT, A.M.....Professor

First Section. Primarily for Undergraduates

1. *Elementary*.—The essentials of German grammar; translation of prose and poetry; beginning conversation; composition and dictation. This course is open to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.*, at 11.15. Six semester-hour credits. Professor SCHOENFELD.

2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.00. Six semester-hour credits. Professor SCHMIDT.

3. Selected texts from the best contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued, with special emphasis on syntax, word-formation, and the relationship of German and English; conversation continued. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2, or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.*, at 11.15. Six semester-hour credits. Professor SCHOENFELD.

4. *Parallel with Course 3.*—Contemporary German is read during the first half-year and classical during the second half-year. *Mon., Wed., Fri.*, at 5.50. Six semester-hour credits. Professor SCHMIDT.

6. *Scientific and Technical German.*—Designed primarily for students in the scientific and engineering courses. This course may be taken by students who have passed Course 1 or 2, or who have satisfied the admission requirement in elementary German. *Tu., Th., Sat.*, at 5.50. Six semester-hour credits. Professor SCHMIDT.

7. Advanced course in German syntax; principal difficulties of the language: idioms; synonyms; translations of English prose into German; essays; selected advanced prose; classical reading and literature; German history. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.*, at 1.45. Six semester-hour credits. Professor SCHOENFELD.

8. Parallel with Course 7, with special reference to advanced students both in the historico-political and the scientific departments. *Tu., Th., Sat.*, at 5.00. Six semester-hour credits. Professor SCHOENFELD.

Second Section. For Undergraduates and Graduates

20. *Outline of the History of German Literature and Civilization from the Teutonic Origins to the Renaissance and Reformation*, with special reference to the emerging of the Germanic, Romance, and Slavic races.—Lectures, extensive readings of the classics of the first period of bloom; advanced practice in writings, essays. *Mon. Wed., Fri.*, at 10.15. Six semester-hour credits. Professor SCHOENFELD.

21. *German Literature of the Second Classic Period at its Zenith.*—Lessing's Life and Work; Goethe's work in the Natural Sciences; Schiller's drama at its zenith; Goethe's and Winckelmann's influence on German art; with special reference to the modern drama; Goethe's Faust, as a special critical and philosophical study; classical ballad and lyric poetry; renaissance of the German volkslied in the eighteenth and nineteenth centuries. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Professor SCHOENFELD.

22. *The Currents of German Literature from the beginning of the Nineteenth Century until 1870.*—Romanticism, its social and political aspects; Modern German Drama, with special emphasis on Kleist, Grillparzer, Heibel; Lyrics and Ballads: Uhland and Heine. *Tu., Th., Sat.*, at 10.15. Six semester-hour credits. Professor SCHOENFELD. Not given in 1918-19.

Third Section. Primarily for Graduates

50. *Seminar in the History of Middle High German Literature*, with special reference to the Epic and Lyrical Poetry in the Twelfth and Thirteenth Centuries. Introduction to scientific methods of historical

and literary research in the Nibelungenlied and the Gudrunsaga. Six semester-hour credits. Professor SCHOENFELD.

51. *Gothic*.—Introduction to comparative Indo-European Grammar. Six semester-hour credits. Professor SCHMIDT.

52. *Old High German*.—The development of the German language. Six semester-hour credits. Professor SCHMIDT.

Only one of the foregoing two courses (51, 52) is given in any one year.

For notice of the Richard Heinzel Germanic Library, see page 40.

GREEK

See Classical Language.

HISTORY

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
LEVI RUSSELL ALDEN, A.M., LL.B.....	Assistant Professor
GEORGE MORTON CHURCHILL, Ph.D.....	Assistant Professor
LEWIS EUGENE MCARTHUR A.B.....	Instructor
ELMER LOUIS KAYSER, A.B.....	Instructor

First Section. Primarily for Undergraduates

1. *Mediaeval History*.—A history of the settlement of the Germanic tribes in the territory of the Empire, with a study of feudal institutions, extending through the movements of the Crusades; texts, with assigned readings. First half-year. *Mon., Wed., Fri.*, at 3.45. Three semester-hour credits. Professor SWISHER.

2. *Mediaeval History*.—A history of the evolution of national government extending through the periods of the Renaissance and the Protestant Revolution; texts and assigned readings. Second half-year. Three semester-hour credits. *Mon., Wed., Fri.*, at 3.45. Professor SWISHER.

3. *Modern European History*.—A study of the European States under the new conditions resulting from the discovery of America and the opening of the oriental trade routes, extending through the period of the French Revolution; texts, lectures, and collateral readings. First half-year. *Mon., Wed., Fri.*, at 2.45. Three semester-hour credits. Professor SWISHER.

4. A continuation of the preceding through the revolutionary movements of the nineteenth century, with a more detailed study of recent issues; texts, lectures, and collateral readings. Second half-year. *Mon., Wed., Fri.*, at 2.45. Three-semester-hour credits. Professor SWISHER.

5. *Mediaeval History*.—Parallel with Course 1. First half-year. *Tue., Th., Sat.*, at 5.00. Three semester-hour credits. Professor SWISHER. Not given in 1918-19.

6. *Mediaeval History*.—Parallel with Course 2. Second half-year. Tu., Th., Sat., at 5.00. Three semester-hour credits. Professor SWISHER, Not given in 1918-19.

Second Section. For Undergraduates and Graduates

20. *American History*.—A study of the formation of the Union and the subsequent history of the United States to date, with particular attention to those factors which have tended to develop or retard the growth of American nationality; text-book, lectures and special reports. Tu., Th., Sat., at 11.15. Six semester-hour credits. Assistant Professor ALDEN.

21. *Ancient History*.—A study of the history of the ancient oriental peoples, and of Greece and Rome; with collateral readings in the translated texts of Herodotus, Plutarch, Thucydides, Tacitus and others. Tues., Thu., Sat., at 9.15. Six semester-hour credits. Mr. KAYSER.

25. *English History*.—A general course in English history with special attention to constitutional and political development. Texts, lectures, and collateral reading. Mon., Wed., Fri., at 5.00. Six semester-hour credits. Assistant Professor CHURCHILL.

30. *American Constitutional History*.—A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues. Lectures, text-books, and collateral readings. Tu., Th., Sat., at 5.00. Six semester-hour credits. Professor SWISHER.

31. *Modern European History*.—A study of the French Revolution and subsequent reaction extending through the Revolution 1848. First half-year. Tu., Th., Sat., at 5.50. Three semester-hour credits. Professor SWISHER.

32. *Modern European History*.—From 1850 to the present time. Second half-year. Tu., Th., Sat., at 5.50. Three semester-hour credits. Professor SWISHER.

33. *Current History*.—A discussion of political questions of the day, with special reference to their origin and historical significance. Lectures throughout the year. Sat., at 11.15. Two semester-hour credits. Professor SWISHER.

Third Section. Primarily for Graduates

54. *Seminary Work*.—The results of individual research, conducted by graduate students upon assigned topics, will be discussed at the weekly meetings of the seminars of American and Modern European History.

Undergraduate students qualified by previous historical study, who desire to do intensive work with a view to gaining fuller information upon special periods or facility in the use of historical materials, may, with the approval of the instructor, be admitted to the historical semi-

nars. Regular meeting of Seminar, Saturday, 12.15-2.15. Six semester-hour credits. Professor SWISHER, Assistant Professor ALDEN, and Assistant Professor CHURCHILL.

INTERNATIONAL LAW AND DIPLOMACY

See Political Science.

LATIN

See Classical Languages.

MATHEMATICS

HOWARD LINCOLN HODGKINS, Ph.D.....Professor
HARRY GRANT HODGKINS, A.B.....Instructor

First Section. Primarily for Undergraduates

3. *College Algebra; Solid Geometry; Plane Trigonometry.*—Algebra is studied during the first half-year, solid geometry during February and March, and trigonometry during April and May. *Mon. Wed., Fri.,* at 9.15. Six semester-hour credits. Professor HODGKINS.

4. *Algebra; Plane Trigonometry.*—Algebra is studied until April 1, and trigonometry during April and May. *Mon., Wed., Fri.,* at 5.00. Six semester-hour credits. Mr. HODGKINS.

6. *College Algebra; Solid Geometry; Plane Trigonometry.*—Parallel with Course 3. *Mon. Wed., Fri.,* at 5.50. Six semester-hour credits. Mr. HODGKINS.

9. *Trigonometry; Analytic Geometry.*—Trigonometry until Jan. 1, analytic geometry for the remainder of the session. The completion of Course 3, 4 or 6 is requisite for admission to this course. *Mon., Wed., Fri.,* at 10.15. Six semester-hour credits. Professor HODGKINS.

12. *Trigonometry; Analytic Geometry.*—Parallel with Course 9. Section A. *Mon., Wed., Fri.,* at 5.50. Section B. *Tu., Th., Sat.,* at 5.50. Six semester-hour credits. Professor HODGKINS.

Second Section. For Undergraduates and Graduates

20. *Differential and Integral Calculus; Elements of differential equations.* *Tu., Th., Sat.,* at 5.00. Six semester-hour credits. Professor HODGKINS.

21. *Differential and Integral Calculus; Elements of differential equations.* *Tu., Th., Sat.,* at 9.15. Six semester-hour credits. Professor HODGKINS.

Third Section. Primarily for Graduates

50. *Differential Equations.*—*Mon., Fri.,* at 11.15. Four semester-hour credits. Professor HODGKINS.

MECHANICAL DRAWING

JOHN RAYMOND LAPHAM, M.S. in C.E.....Assistant Professor
 WILLIAM DARRACH HALSEY, A. B.....Assistant Professor
 FRANCIS ALBERT WOODWARD, B.S. in M.E.....Instructor

First Section. Primarily for Undergraduates

1. *Mechanical Drawing*.—A general course embracing the care and use of instruments; Freehand lettering, orthographic and isometric projections; sections and intersections; sketching of simple machine details; principle of working drawings; curve plotting. Two three-hour periods. Four semester-hour credits.

2. *Machine Drawing*.—A course in working drawings especially designed for Mechanical and Electrical Engineering students. The course is largely one of empirical design of standard machine parts. Much stress is laid upon drafting room practice, arrangement of views and conventional forms and standards. Two three-hour periods. Four semester-hour credits.

3. *Mechanical Drawing*.—A combination of Courses 1 and 2 especially designed for Chemical Engineering students. Two three-hour periods. Four semester-hour credits.

4. *Mechanical Drawing*.—A course for Chemical Students, similar to Course 3. One three-hour period. Two semester-hour credits.

8. *Descriptive Geometry*.—A course of lectures, recitations, and drafting room work on the line, point, and plane; single and double curved surfaces; tangent lines and tangent planes; intersections of lines, planes, and solids; shades, shadows and perspective. One three-hour period. Three semester-hour credits.

MECHANICAL ENGINEERING

ROBERT WILBUR MORSE, S.B.....Assistant Professor
 WILLIAM DARRACH HALSEY, A.B.....Assistant Professor

First Section. Primarily for Undergraduates

1. *Mechanism*.—A course in the systematic study of the kinematics of machinery, in which the mechanical movements are reduced to scientific analysis. Carefully developed problems and diagrams of changes of position and speed in mechanism are constantly used.

Some attention is given to the design of gear teeth, and a large part of the second half year is devoted to the study of steam engine valve gears. Three lectures and one drawing period. Eight semester-hour credits. Assistant Professor HALSEY.

6. *Engineering Drawing*.—This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineer-

ing to specific problems. Practice is given in the design of valve gears, cans, gear teeth and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. Two three-hour periods. Four semester-hour credits. Assistant Professor MORSE.

9. *Engineering Laboratory*.—A course of practical work in the testing of engineering apparatus and materials. The work consists of tests of the strength of iron, steel and cement; measurement of the flow of air and water; tests of steam calorimeters; tests of pumping machinery; efficiency tests of steam engines; fuel value determinations; evaporative efficiency of boilers. Two three-hour periods, second half-year. Two semester-hour credits. Assistant Professor MORSE and Assistant Professor HALSEY.

10. *Engineering Laboratory*.—A completion of Course 9. Two three-hour-periods. first half-year. Two semester-hour credits. Assistant Professor MORSE and Assistant Professor HALSEY.

11. *Engineering Laboratory*.—Advanced work in the laboratory for Mechanical Engineering students. The work consists of efficiency tests of refrigerating machinery, air compressing machinery; Hirn's analysis; etc. Two three-hour periods, second half-year. Two semester-hour credits. Assistant Professor MORSE and Assistant Professor HALSEY.

Second Section. For Undergraduates and Graduates

20. *Thermodynamics, Steam Boilers, and Power Plant Accessories*.—About five months are devoted to the principles of thermodynamics, the theoretical gas and vapor cycles, and the properties of steam. The application of the theoretical vapor cycles to the real steam engine is discussed. The latter part of the course is devoted to the study of steam boilers, steam turbines, gas engines, steam power plant accessories, compression and refrigeration machinery. Three hours. Six semester-hour credits, Assistant Professor HALSEY.

23. *Hydraulic Machinery*.—This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two hours, second half-year. Two semester-hour credits. Assistant Professor MORSE.

24. *Cotton Machinery and Machine Tools*.—A study of the mechanisms found in cotton machinery and machine tools. Two hours one term. Two semester-hour credits. Assistant Professor MORSE.

25. *Machine Design*.—This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are:

The complete design of a gas engine, or a punch, or the design of a steam boiler, a series of shaft couplings, and a fly-wheel.

The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. One lecture-recitation hour and five hours in the drawing room. Four semester-hour credits. Assistant Professor MORSE.

26. *Dynamics of Machinery*.—A course including a number of the principal applications of dynamics to moving machinery, such as governors, fly-wheels, and the effect of the reciprocating parts of gas and steam engines. Two hours. Four semester-hour credits. Assistant Professor MORSE.

27. *Power-Plant Design*.—This course provides for the design with complete plans and specifications of a power plant of industrial proportions by the student. One lecture-recitation hour and one three-hour drawing period, first half-year. Two semester-hour credits. Assistant Professor MORSE.

28. *Industrial Management*.—A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the method of superintendence and of compensating labor, the determination of the cost of production, and the effect on costs of different systems of distributing indirect expenses. This course also considers the factors which enter into a determination of the depreciation of structures and the economic selection thereof. Two hours. Four semester-hour credits. Assistant Professor MORSE.

29. *Heating and Ventilating*.—This course deals with the elementary principles underlying the subject of heating and ventilating. Furnace heating, direct and indirect steam heating, hot water heating, and the ventilating of different types of buildings are discussed. Two hours, second half-year. Two semester-hour credits. Assistant Professor HALSEY.

30. *Gas Engines*.—This course deals with the thermodynamics and practice of the internal combustion engine. A study is made of the principal existing types of engines. Two hours, first half-year. Two semester-hour credits. Assistant Professor HALSEY.

31. *Steam Turbines*.—This course deals with the thermodynamics and practice of the steam turbine. Nozzle and blade design is taken up and a study is made of the existing types of turbines. Two hours, second half-year. Two semester-hour credits. Assistant Professor HALSEY.

Third Section. Primarily for Graduates

50. *Advanced Machine Design*.—Six semester-hour credits. Assistant Professor MORSE.

51. *Advanced Power Plant Design*.—Six semester-hour credits. Assistant Professor MORSE.

METEOROLOGY

WILLIS LUTHER MOORE, D.Sc., LL.D.....Professor
WILLIAM JACKSON HUMPHREYS, Ph.D.....Professor

Third Section. Primarily for Graduates

50. *Applied Meteorology*.—Investigation of the underlying laws governing meteorological phenomena and of the methods employed in practice for their interpretation and applications. Ten semester-hour credits. Professor MOORE.

51. *Meteorological Physics*. This course presupposes collegiate training in general physics. Particular attention will be given to the interpretation of meteorological phenomena in the light of modern physics; and those wishing to make this their principal study will be assisted in the selection of a suitable problem for investigation and advised in the collection of data necessary to its solution. Ten semester-hour credits. Professor HUMPHREYS.

NAUTICAL SCIENCE

GEORGE WASHINGTON LITTLEHALES, C.E.....Professor

First Section. Primarily for Undergraduates

1. *Nautical Science*.—Marine and aerial navigation; nautical astronomy; nautical almanac; production and use of nautical charts; tides; applications of meteorology, terrestrial magnetism and oceanography to navigation and seamanship; deviation of the compass in iron and steel ships; theory and use of instruments of navigation. Four semester-hour credits. Professor LITTLEHALES.

Third Section. Primarily for Graduates

50. *Nautical Science*.—Special investigations requiring original thought in relation to avenues of progress, such as the neutralization of the effects of the ship's magnetism upon the compass, the development of the gyroscopic compass, the supplying of means to enable seamen to make astronomical observations at night or when the horizon is hidden from view. The applications of nautical astronomy to aerial navigation. Conferences, assigned readings, direction of research. Six semester-hour credits. Professor LITTLEHALES.

NAVAL ARCHITECTURE

ARTHUR FREDERICK JOHNSON, M.E.....	Assistant Professor
GEORGE VALENTINE WHITTLE, M.E.....	Instructor
CLAY LUTHER JENNISON.....	Instructor

20. *Elementary Naval Architecture*.—Calculations and details of construction connected with the design of steel composite and wooden ships for the merchant, naval and special services. Students make structural, and line drawings for a given vessel. Three recitations, one drawing period. Eight semester-hour credits.

21. *Advanced Naval Architecture*.—Advanced design, ship construction, equipment and fittings, organization and administration of shipyards, economics of design, inspection, testing, contracts and specifications. Students complete design, calculations and specifications for a vessel. At seasonable periods during the course, shipyards in the vicinity are visited and studied. Three recitations, one drawing period. Eight semester-hour credits.

24. *Elementary Marine Engineering*.—Boilers, reciprocating engines and auxiliary machinery. Fuels and thermodynamics for marine machinery, indicator diagrams and valve gears. Students make arrangement drawings for a scotch boiler and reciprocating engine. Three recitations, one drawing period. Eight semester-hour credits.

25. *Advanced Marine Engineering*.—Balance and design of reciprocating engines with calculations. Marine steam turbines, internal combustion engines, gas producers and electrical propulsion. Students study and make tests of a compound steam engine and a marine internal combustion engine in the laboratory. Three recitations, one drawing or laboratory period. Eight semester-hour credits.

PHILOSOPHY AND PSYCHOLOGY

WILLIAM CARL RUEDIGER, Ph.D.....	Professor
SHEPHERD IVORY FRANZ, Ph.D. LL.D., M.D.....	Professor
EDWARD ELLIOTT RICHARDSON, Ph.D.....	Professor
HARRIET U. SYMONDS, A.M.....	Lecturer

First Section. Primarily for Undergraduates

1. *General Psychology*.—An introductory study of the principal facts and laws of the mental life. First half-year. *Mon., Wed., Fri.*, at 10.15. Three semester-hour credits. Professor RUEDIGER.

2. *General Psychology*.—Parallel with Course 1. First half-year. *Mon., Wed., Fri.*, at 5.00. Three semester-hour credits. Professor RUEDIGER.

3. *Logic*.—A study of the thinking process, the principles of deductive and inductive inference, and the nature, structure, and organization of

knowledge. Second half-year. *Mon., Wed., Fri.*, at 10.15. Three semester-hour credits. Professor RUEDIGER.

4. *Logic*.—Parallel with Course 3. Second half-year. *Mon., Wed., Fri.*, at 5.00. Three semester-hour credits. Professor RUEDIGER.

Second Section. For Undergraduates and Graduates

20. *History of Philosophy*.—The more important epochs in the history of thought. Attention is directed to the relation of these distinctive periods to the course of the world's progress. First half-year. *Tu., Th., Sat.*, at 10.15. Three semester-hour credits. Professor RICHARDSON.

21. *Ethics*.—A historical and theoretical course, with the aim of acquainting the student with the principal ethical theories. Reference is made to the application of these theories to concrete conditions. Second half-year. *Tu., Th., Sat.*, at 10.15. Three semester-hour credits. Professor RICHARDSON.

22. *Ethics*.—Similar to course 21. Second half-year. *Mon., Wed.*, at 5.50. Two semester-hour credits. Professor RICHARDSON.

24. *History of Philosophy*.—The development of philosophy, its nature and problems. This course while introductory is designed to be comprehensive and to give the student a general survey of the philosophic field. *Tu., Th.*, at 5.00. Four semester-hour credits. Professor RICHARDSON.

25. *Experimental Psychology*.—An introductory laboratory course. Experiments on sensation, movement, effects of practice, memory and association, emotional manifestations, etc., and practical work with the Binet and other mental tests. To be taken by graduate students who are taking a major or minor in psychology, and who have not had experimental psychology. *Sat.*, 9.15–11.15. Three semester-hour credits, Professor RUEDIGER and Mrs. SYMONDS.

27. *Recent Philosophical Movements*.—A consideration of the various philosophical movements and tendencies of the immediate past. A critical study of the occasion and meaning of the trend of thought at the present time. Lectures and reading of recent books and periodicals. *Wed.*, at 5.00. Two semester-hour credits. Professor RICHARDSON. Not given in 1918–19.

28. *Philosophy of Nature*.—A critical examination of the concepts of physical science. An investigation of the significance of scientific laws and theories. *Wed.*, at 5.00. Two semester-hour credits. Professor RICHARDSON.

(Courses 27 and 28 are given in alternate years.)

29. *Problems of Philosophy*.—An advanced course dealing with philosophical questions from the standpoint of the questions themselves rather than as these have been presented historically. A critical and constructive examination of fundamental philosophic principles and

problems. Lectures, readings and reports. First half-year. *Mon., Wed.*, at 5.50. Two semester-hour credits. Professor RICHARDSON.

Third Section. Primarily for Graduates

50. *Seminar in Psychology*.—Not given in 1918-19. Professor RUE-DIGER.

51. *Metaphysics*.—The principles of metaphysics and the problems of philosophy. An advanced course tracing the origin and development of metaphysical questions, and a critical examination of the attempted solution of these problems. Readings, conferences and written reports. Six semester-hour credits. Professor RICHARDSON.

52. *Advanced Experimental, Abnormal or Physiological Psychology*.—Course to be altered in different years in accordance with the needs of students. Prerequisite—courses in general psychology, and introductory experimental psychology. Conferences, reading of recent literature, and demonstrations. Ten semester-hour credits. Professor FRANZ.

53. *Research in Psychology*.—Advanced students, who select psychology as major or minor for the degree of A.M., or Ph.D., will be given special topics for investigation in abnormal, physiological or experimental psychology. To be preceded or accompanied by Course 52 or its equivalent. Ten semester-hour credits. Professor FRANZ.

PHYSICS

THOMAS B. BROWN, Ph.D.....	Assistant Professor
CHARLES EDWIN VAN ORSTRAND, S.M.....	Lecturer
HARVEY LINCOLN CURTIS, Ph.D.....	Lecturer

First Section. Primarily for Undergraduates

1. *General Physics*.—A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has completed Mathematics 9 or 12. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Assistant Professor BROWN.

2. *Laboratory Physics*.—Laboratory methods, accurate measurements of physical quantities, and experimental study of physical laws and apparatus. Course 2 is arranged to parallel courses 1 and 3, and may not be taken without an equivalent previous preparation in Physics. Different series of experiments are arranged according to the needs of individual students. Two two-hour periods. *Tu., Th.*, at 10.15, or *Tu., Th.*, at 7.30. Four semester-hour credits. Assistant Professor BROWN, and Assistants.

3. *Introductory General Physics*.—A lecture and recitation course, similar in scope to Course 1, but less mathematical in treatment; planned with reference to the general student. *Mon., Wed. Fri.*, at 1.45. Six semester-hour credits. Assistant Professor BROWN.

Second Section. For Undergraduates and Graduates

21. *Heat and Thermodynamics*.—A recitation and lecture course, using Edser's *Heat* as a class text, and the more advanced texts and the literature for reference reading. *Mon., Wed., Fri.*, 5.50. Six semester-hour credits. Assistant Professor BROWN.

22. *Light*.—A recitation and lecture course, using Edser's *Light* as a class text, and the more advanced texts and the literature for reference reading. Six semester-hour credits. Not given in 1918-19. Assistant Professor BROWN.

Third Section. Primarily for Graduates

57. *Statistical Mechanics and Kinetic Theory*.—This course includes Gibb's preliminary derivation of the fundamental equations of thermodynamics and a discussion of the physical properties of gases from the standpoint of general dynamics. Viscosity, diffusion, heat conduction, Brownian movements, Van der Waal's equations and molecular aggregation and dissociation. Gibb's *Statistical Mechanics* and Jean's *Dynamical Theory of Gases*. A lecture and seminar course. *Monday* at 4.50. Six semester-hour credits. Mr. VAN ORSTRAND.

58. *Elasticity*. The physical properties of solids as applied to problems in geophysics. Homogeneous stress and strain. Potential energy of strained solids. Transmission of force. Propagation of earthquake waves. Love's *Mathematical Theory of Elasticity*. A lecture and seminar course. *Friday* at 4.50. Six semester-hour credits. Mr. VAN ORSTRAND.

59. *Theoretical Electricity*.—A lecture course on the Mathematical theory of Electricity, using J. J. Thomson's *Elements of Electricity and Magnetism* as a basis. The fundamental propositions of electrical theory are discussed, and their applications to practical problems are pointed out. The solution of a number of problems is also required. Six semester-hour credits. Dr. CURTIS.

60. *Least Squares*. Derivation of the law of errors and adjustment of observations with special reference to the determination of the constants of empirical formulas. Merriman's *Method of Least Squares*. A lecture and recitation course. First half-year. *Monday* at 4.50. Not given in 1918-19. Two semester-hour credits. Mr. VAN ORSTRAND.

61. *Conduction of Heat*.—Fourier's analysis is applied to numerous problems in the diffusion of heat and substances. Ingersoll and Zobel's *Mathematical Theory of Heat Conduction*. A lecture and recitation course. Second half-year. *Mon.*, at 4.50. Not given in 1918-19. Two semester-hour credits. Mr. VAN ORSTRAND.

POLITICAL SCIENCE

CHARLES HERBERT STOCKTON, LL.D.....In charge of Department
WILLIAM MILLER COLLIER, A.M. LL.D., President-Elect.....Lecturer
CHARLES EDWARD HILL, Ph.D.....Professor

First Section. Primarily for Undergraduates

1. *Government of the United States.*—This course includes a brief study of the factors that led to union among the colonies, of the Second Continental Congress, the Articles of Confederation and a deeper study of the organization and functions of the present government. First half-year. *Mon., Wed., Fri.*, at 10.15. Three semester-hour credits.

2. *Government of the United States.*—Parallel with Course 1. First half-year. *Tu., Th., Sat.*, at 5.50. Three semester-hour credits.

3. *State Government.*—The Pennsylvania, Virginia and Massachusetts types, their evolution into the present prevailing form, powers of constitutional conventions, growth of executive responsibility, increasing legislative limitations, extension of the suffrage, initiative, referendum, recall, judicial review, the short ballot, civil service, the influence of public opinion and its limitations, the police power and the control of public utilities are the leading topics. Second half-year. *Mon., Wed., Fri.*, at 10.15. Three semester-hour credits.

4. *State Government.*—Parallel with Course 3. Second half-year. *Tu., Th., Sat.*, at 5.50. Three semester-hour credits.

6. *Political Parties in the United States.*—A study of the functions of political parties in our government, of their history, their organization, their responsiveness to public opinion and of what measures have come effectively within the scope of public opinion. First half-year. *Tu., Th., Sat.*, at 5.00. Three semester-hour credits. To be given in 1919-20.

8. *South American Republics.*—A sketch of their establishment and an analysis of the structure of their governments and a study of how these governments reflect economic and social conditions is the object of the course. Second half-year. *Tu., Th., Sat.*, at 5.00. Three semester-hour credit. To be given in 1919-20.

Second Section. For Undergraduates and Graduates

21. *Parliamentary Government.*—The English, Canadian, French and Italian systems with a notice of the relation of the ministry to the legislature in the Netherlands, Belgium, Norway, Sweden, Denmark, Spain and Japan give ample scope to the course. First half-year. *Tu., Th., Sat.*, at 5.00. Three semester-hour credits.

22. *The Governments of Germany, Austria-Hungary, Switzerland and Russia.*—Comparison and contrast with American organs and conditions furnish the point of view. Second half-year. *Tu., Th., Sat.*, at 5.00. Three semester-hour credits.

23. *City Government in the United States.*—A study of the origin and structure of the mayor and council, commission and city manager plans, home rule, the relation of the city to the state, municipal powers and officers, social and individual rights and of references to European experience. First half-year. *Mon., Wed., Fri.*, at 11.15. Three semester-hour credits,

24. *Constitutional Law*.—The interpretation of clauses in the constitutions of the United States and of the separate states affecting officers, courts, powers of Congress, police power and private rights as found in judicial decisions forms the subject-matter. Second half-year. *Mon., Wed., Fri.*, at 11.15. Three semester-hour credits.

29. *Principles of International Law*.—A concise study of the nature, sources and sanctions of International Law. The laws of peace deal with the origin, classification, and essential rights and duties of states but not diplomatic relations; the laws of war deal with the sources and general relations between belligerents together with the rights and duties of neutrals. Lectures, text, assigned cases and additional readings and papers on selected topics. First half-year. *Mon.*, 5.00 to 6.40. Two semester-hour credits. Lectures and assigned readings. President STOCKTON, supplemented by case instruction, Professor HILL.

30. *Elements of Diplomacy and Diplomatic Usage*.—A thorough study of the general principles of diplomatic usage; the rights, privileges and immunities of diplomatic and consular officers; the preliminaries, drafting, signing, and ratification of treaties, and an investigation of other amicable means for settling international differences. Lectures, texts, assigned cases and additional readings and papers on selected topics. Second half-year. *Mon.*, 5.00 to 6.40. Two semester-hour credits. Lectures and assigned readings, President-Elect COLLIER, supplemented by case instruction, Professor HILL.

Third Section. Primarily for Graduates

51. *Readings in Political Science*.—This course is arranged to meet the individual needs of advanced students. The handling of materials, the choice of a theme, its discussion and writing are included. Hours will be arranged each half-year. Three semester-hour credits.

PREVENTIVE MEDICINE

JAMES CHAMBERS PRYOR, A.M., M.D.....Professor

Third Section. Primarily for Graduates

50. A seminar course dealing with vital statistics; etiology and prevention of infectious diseases; causes and prevention of infant mortality; prevention of disease of occupation; protective inoculations; municipal hygiene; national and interstate preventive measures. Ten semester-hour credits. Professor PRYOR.

ROMANCE LANGUAGES AND LITERATURES

GEORGE NEELY HENNING, A.M.....Professor of Romance Languages
JOAQUIM DE SIQUEIRA COUTINHO, Kt., Sc.D...Professor of Portuguese
HENRY GRATTAN DOYLE, A.M.,

Assistant Professor of Romance Languages

EDWARD CULLOM, A.M.....	Instructor in French
WALTON COLCORD JOHN, A.M.....	Instructor in Spanish
JULES MAILLET	Instructor in French
CECIL KNIGHT JONES, Lit.B.....	Instructor in Spanish
MARCEL MORAUD, B. ès L.....	Lecturer in French
XAVIER TEILLARD, B. ès L.....	Instructor in French

French

First Section. Primarily for Undergraduates

1. *First-Year Course*.—Fraser and Squair's French Grammar. Grammar, composition, drill in pronunciation, translation and reading of modern French fiction, comedy and history. For beginners. *Tu., Th., Sat.*, at 9.15. Six semester-hour credits. Assistant Professor DOYLE.

2. *First-Year Course*.—Parallel with Course 1. Fraser and Squair's French Grammar. For beginners. Section A. *Mon., Wed., Fri.*, at 5.50. Section B. *Tu., Th., Sat.*, at 5.50. Six semester-hour credits. Mr. CULLOM.

3. *Second-Year Course*.—Fraser and Squair's French Grammar. First text, Dumas fils, "La question d'argent" (Heath); other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.*, at 10.15. Six semester-hour credits. Professor HENNING.

4. *Second-Year Course*.—Parallel with Course 3. Fraser and Squair's French Grammar. First text, Dumas fils, "La question d'argent" (Heath); other texts to be announced. *Tu., Th., Sat.*, at 5.00. Six semester-hour credits. Professor HENNING.

5. *General Survey of Modern French Literature*.—(Nineteenth, Eighteenth and Seventeenth Centuries).—Translation, collateral reading and reports thereon, lectures on literature, composition. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 3.45. Six semester-hour credits. Professor HENNING.

6. *Parallel with French 5*, but omitting composition. *Tu., Th., Sat.*, at 5.50. Six semester-hour credits. Professor HENNING. (This course will be given only if elected by at least six students at the beginning of the year.)

7. *Conversation and Composition*.—Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French, or otherwise satisfy the instructor of their fitness to take it. *Mon., Wed., Fri.*, at 5.00. Four semester-hour credits. Mr. MAILLET.

Second Section. For Undergraduates and Graduates

Courses in this group are open to students who have passed in Course 5 or 6, or otherwise satisfy the instructor of their fitness to take them.

21. *Literature of the Seventeenth Century*.—History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Boileau, Corneille, Descartes, Fénelon, Mme de la Fayette, La Bruyère, La Fontaine, La Rochefoucauld, Malherbe, Molière, Racine, Saint-Evremond, Saint-Simon, Mme de Sévigné, etc. Translation, collateral reading and reports thereon, lectures on literature and history. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Professor HENNING.

26. *Literature from 1750 to 1850; The Romantic Movement*.—History, criticism, travels, fiction, drama, lyric poetry. Rousseau, Bernardin de Saint-Pierre, Chénier; Balzac, Baudelaire, Chateaubriand, Gautier, Hugo, Lamartine, Michelet, Musset, Sainte-Beuve, George Sand, Mme de Staël, Thierry, Vigny, etc. Translation, collateral reading and reports thereon, lectures on literature and history. (Given in 1919-1920.)

28. *Literature from 1850 to the Present*.—History, philosophy, criticism, fiction, drama, lyric poetry. Augier, Brunetière, Daudet, Dumas fils, Flaubert, France, Heredia, Hervieu, Leconte de Lisle, Lemaitre, Loti, Maeterlinck, Maupassant, Mérimée, Renan, Rostand, Sully Prudhomme, Taine, Verlaine, etc. (Given in 1920-21.)

Third Section. Primarily for Graduates

50. *Old French*.—Philology and Literature. *La Chanson de Roland* and Chrétien de Troyes. Phonology and Morphology of Old French, with an outline of its development through Vulgar Latin. Survey of French Literature to the end of the 13th century. Some knowledge of Latin is essential. *Mon., Wed., Fri.*, 4.00. Six semester-hour credits. Assistant Professor DOYLE.

55. One course in the literature of the seventeenth century will be arranged for competent graduates. *Mon., Wed., Fri.*, at 5.00. Six semester-hours credits. Professor HENNING.

Spanish

First Section. Primarily for Undergraduates

1. *First-Year Course*.—Hills and Ford's First Spanish Course. Grammar, written and oral composition, drill in pronunciation, translation of modern Spanish fiction, comedy and history. For beginners. *Mon., Wed., Fri.*, at 1.45. Six semester-hour credits. Assistant Professor DOYLE.

2. *First-Year Course*.—Parallel with Course 1. Hills and Ford's First Spanish Course. For beginners. *Mon., Wed., Fri.*, at 5.00. Six semester-hour credits. Assistant Professor DOYLE.

3. *Second-Year Course*.—Review of grammar, composition, translation of modern Spanish prose and poetry, collateral reading. Open to students who have passed in Course 1 or 2, or have fulfilled the admission requirements in Elementary Spanish, or otherwise satisfy the

instructor of their fitness to take the course. *Mon., Wed., Fri., at 10.15.* Six semester-hour credits. Assistant Professor DOYLE.

4. *Second-Year Course.*—Parallel with Course 3. *Tu., Th., Sat., at 5.00.* Six semester-hour credits. Assistant Professor DOYLE.

Second Section. For Undergraduates and Graduates

20. *Third-Year Course.*—General Survey of Spanish Literature. The Golden Age (Cervantes, Calderón, Lope de Vega); the Nineteenth Century; contemporary writers. Translation of representative works of drama, fiction, poetry. Lectures on the history of Spanish Literature. Outside reading and reports. Composition. Open to students who have passed in Spanish 3 or 4 or have done equivalent work. *Tu., Th., Sat., at 5.50.* Six semester-hour credits. Assistant Professor DOYLE.

Portuguese

First Section. Primarily for Undergraduates

2. *First-Year Course.* Portuguese as a Romance Language. Phonetics and drill in pronunciation, reading aloud of texts, dictation, elementary grammar, translation and composition. For beginners. *Mon., Wed. Fri., at 5.00.* Six semester-hour credits. Professor COUTINHO.

3. *First-Year Course.*—General survey of the history of the literature. No knowledge of Portuguese is necessary. *Mon., Fri., at 5.50.* Four semester-hour credits. Professor COUTINHO.

4. *Second-Year Course.*—Advanced grammar, exercises, composition, translation of prose and poetry, collateral reading, conversation. *Tu., Th., Sat., at 5.00.* Six semester-hour credits. Professor COUTINHO.

6. *Thrd-Year Course.*—Language, literature and philology. *Tu., Th., Sat., at 5.50.* Six semester-hour credits. Professor COUTINHO.

SEMITIC LANGUAGES AND LITERATURE

ISRAEL SCHAPIRO, Ph.D. Professor

Second Section. For Graduates and Undergraduates

20. Elementary Hebrew.—Hebrew vocabulary and grammar; reading, translations of simple passages and briefer exercises. This course is open to beginners. Two hours a week. Four semester-hour credits.

22. Advanced Hebrew.—An intensive study of Hebrew grammar and its relation to Semitics in general. Comparative Semitic philology will be pursued. Translations of longer passages of prose and poetry. Readings and selections from the Old Testament and postbiblical literature. Two hours a week. Four semester-hour credits.

Third Section. Primarily for Graduates

50. Study of the history and development of Hebrew and cognate literatures. Certain epochs of Jewish History. A review of Modern Hebrew literature with particular emphasis on productions of the Haskala period. Special topics in addition to be selected by candidates. Six semester-hour credits.

SUMMER SCHOOL

ARTS AND SCIENCES

1918

CALENDAR

June 22 *Saturday*—Registration, 9-12 a.m.; 4-6 p.m.
June 24 *Monday*—Instruction begins in all courses.
July 4 *Thursday*—Holiday.
July 6 *Saturday*—Classes meet at the usual hours.
August 2-3 *Friday and Saturday*—Examinations.

FACULTY

CHARLES HERBERT STOCKTON, LL.D.....President of the University
WILLIAM CARL RUEDIGER, Ph.D.....Director of the Summer School

LEVI RUSSELL ALDEN, A.M.....Assistant Professor of History
GERTRUDE RICHARDSON BRIGHAM, Ph.D.,

Instructor in Archaeology and History of Art

THOMAS BENJAMIN BROWN, Ph.D.....Assistant Professor of Physics

DE WITT CLINTON CROISSANT, Ph.D.....Professor of English

HENRY GRATTAN DOYLE, A.M.,

Assistant Professor of Romance Languages

CHARLES EDWARD HILL, Ph.D.....Professor of Political Science

HARRY GRANT HODGKINS, A.B.....Instructor in Mathematics

HOWARD LINCOLN HODGKINS, Ph.D...Dean of the Department of Arts

and Sciences and Professor of Mathematics

ELMER LOUIS KATSER, A.B.....Instructor in History

ROBERT RUSS KERN, A.B.....Professor of Economics

CLARENCE CAMERON KOCHENDERFER, A.M.,

Assistant Professor of Commerce

CHARLES ELMER RESSER, Ph.D.....Instructor in Geology

EDWARD ELLIOT RICHARDSON, M.D., Ph.D....Professor of Philosophy

WILLIAM CARL RUEDIGER, Ph.D.,

Dean of Teachers College and Professor of Educational Psychology

WILLIAM CARSON RYAN, A.B.....Instructor in Education

ALFRED FRANCIS WILLIAM SCHMIDT, A.M.....Professor of German

OTIS DOW SWETT, S.B., LL.M.....Assistant Professor of Chemistry

WILLIAM ALLEN WILBUR, A.M., Litt.D.,

Dean of Columbian College and Professor of English

SCHEDULE OF CLASSES

Classes carrying two semester-hours of credit will meet five times a week for six weeks, and those carrying three semester-hours of credit will meet six times a week for seven and one-half weeks. No classes will be held on Thursday, July 4, but the six-week classes will meet on Saturday, July 6.

Examinations in the six-week classes will be held Friday and Saturday, August 2 and 3, and in the seven and one-half week classes on Thursday and Friday, August 15 and 16. No final examinations may be given before those dates. Examinations in all other classes will be held when the work has been completed.

If desired, the classes scheduled for eight o'clock will begin fifteen minutes before eight and close twenty minutes before nine.

8-9	SII	English Com-		
		position.....	2 credits	Dr. Brigham
	S26	American Po-		
		etry.....	2 credits	Professor Wilbur
	SXXXI	Educational		
		Measure-		
		ments.....	2 credits	Mr. Ryan
	S3a	Second-Year		
		Spanish.....	3 credits	Professor Doyle
9-10	S1	Psychology....	2 credits	Professor Richardson
	SXXI	Art.....	2 credits	Dr. Brigham
	S21b	Principles of		
		Education...	2 credits	Professor Ruediger
10-11	S3	Logic.....	2 credits	Professor Richardson
	S1a	Economics....	2 credits	Professor Kern
	S25b	Secondary Edu-		
		cation.....	2 credits	Professor Ruediger
	S32	Literary Criti-		
		cism.....	2 credits	Professor Croissant
11-12	S22	Sociology ..	2 credits	Professor Kern
	S29	Modern Drama	2 credits	Professor Croissant
	SXXIII	Philosophy....	2 credits	Professor Richardson
5-6	S1	Chemistry.....	6 credits	Professor Swett
	S3	Geography.....	2 credits	Dr. Resser
	S6a	Second-Year		
		German.....	3 credits	Professor Schmidt
	S20b	American His-		
		tory.....	3 credits	Professor Alden
	S4b	Trigonometry..	2 credits	Mr. Hodgkins
	S1a	U. S. Govern-		
		ment....	3 credits	Professor Hill

5- 6	S1a	First-Year		
		Spanish.....	3 credits	Professor Doyle
	S46	World Politics	3 credits	Prof. Kochenderfer
5- 7	S2	English Rhet-		
		oric.....	4 credits	Professor Wilbur
	S2a	Physics.....	2 credits	Professor Brown
6- 7	SIV	German.....	3 credits	Professor Schmidt
	S31	European His-		
		tory.....	3 credits	Mr. Kayser
	S40	Economic His-		
		tory.....	3 credits	Prof. Kochenderfer
	S4a	College Alge-		
		bra.	3 credits	Mr. Hodgkins
	S3a	Physics.....	3 credits	Professor Brown
	SXXII	International		
		Relations....	3 credits	Professor Hill
	S1a	First-year		
		French.....	3 credits	Professor Doyle
6- 8	S2	Geology.....	4 credits	Dr. Resser
6-10	S2	Chemistry.....	4 credits	Professor Swett
	S3	Chemistry.....	4 credits	Professor Swett
	S7	Chemistry.....	4 credits	Professor Swett
7- 8	S4a	Second-Year		
		French.....	3 credits	Professor Doyle

OPPORTUNITIES

The opportunities for culture that may be enjoyed in Washington are unrivaled. The libraries, museums, and Government buildings are open daily for inspection and study, and both the city and vicinity are replete with places of historic interest. The knowledge of the nation's capital and its environs that may be gained during a six weeks' sojourn is alone no small part of a liberal education, and when this is combined with educational opportunities of the first order, the situation becomes ideal.

WORK OFFERED

The courses offered are all of college grade, are given by regular members of the faculty or others experienced in college teaching, and represent essentially all the subjects of study found in the Department of Arts and Sciences.

Courses for which less than six students have registered by June 26 may be withdrawn. If courses not announced in this Bulletin are desired an effort will be made to provide them.

ADMISSION

No entrance examinations or certificates of work completed in secondary schools will be required for admission to the Summer School, but no student will be allowed to register for any except an elementary course until he has given evidence satisfactory to the instructor concerned or to the Director that he is qualified to pursue the course to advantage.

REGISTRATION

The work in all classes will begin promptly on Monday, June 24, at the hours scheduled and registration should be completed before that time. The Director will be in his office to receive registrations daily from 10-12 a.m. and 4-6 p.m., June 17-22.

CREDIT

The units of credit in semester hours carried by the several courses are indicated both in the schedule of classes on pages 4-5 and in the descriptive outlines of the courses on pages 7-11. A semester-hour of work is the equivalent of a course meeting once a week throughout a semester during the regular session of the University.

Work satisfactorily completed in the Summer School will be accredited toward a degree at George Washington University on the same basis as work completed during the regular session, but in no case will a student be accredited with more than four courses completed in the Summer School period.

CERTIFICATES

Certificates of attendance and of work satisfactorily completed will be issued on or about September 1.

FEES

Tuition fee per semester-hour.....	\$5.00
Registration fee.....	1.00
Laboratory fees:	
Chemistry S2, S3, and S7, each	\$10.00
Chemistry S20 and S21, each	25.00
Breakage deposit in chemistry, the amount paid in excess of breakage to be returned, S2, S3, and S7, each.....	10.00
Courses S20 and S21, each.....	25.00
The scholarships, University and Ministerial Aid available during the regular session are not applicable to the Summer School.	

PAYMENT OF FEES

All fees are due upon registration and are payable at the Treasurer's Office, 2101 G Street. Students who find it impossible to pay their fees by July 3 should make special arrangements with the Director when they register. No certificate of attendance or of credit will be issued unless all fees have been paid.

A student who is compelled to withdraw before July 20 is entitled to cancellation of one-half of his fees, provided he applies to the Director for this privilege by August 15, 1918. The registration fee, however, may not be cancelled, once a student's registration has been completed.

LIBRARY

The University Library, which is found in the first floor of the main building, will be open on school days from 8.30-12.30 and from 3-7, and on Saturday forenoons.

COURSES OF INSTRUCTION

The letter S, meaning Summer, is prefixed to the numbers of courses to distinguish them from the courses offered during the regular session of the University. Courses corresponding approximately to those offered during the regular session are given corresponding numbers. Courses not so corresponding are assigned Roman numerals. The letters a and b following some of the numbers signify correspondence respectively to first and to second semester work of the regular session.

ART

S XXI. *History of Art*. An introductory course in the schools of painting and sculpture, including the Greek, Roman, Renaissance, intermediate and modern periods, with attention to English, French, and American art.

Illustrated lectures. Visits to the National Gallery and the Library of Congress. Special study may be arranged for advanced students. At 9. Two semester-hour credits. Dr. BRIGHAM.

Chemistry

S 1. *General Chemistry*.—A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Daily at 5. 60 periods. Six semester-hour credits. Assistant Professor SWETT.

S 2. *Laboratory Practice*.—A laboratory course for the study of the principles of chemistry and the method of conducting chemical experiment. Daily 6-10. Four semester-hour credits. Assistant Professor SWETT.

(NOTE: Courses S 1 and S 2 should be taken together. Courses S 20, *Qualitative Analysis*, six semester-hour credits, and S 21, *Quantitative Analyses*, eight semester-hour credits, will be given if demanded.)

S 3. *Organic Experiments and Inorganic Preparations*.—First twelve periods, experiments in organic chemistry; last eighteen periods, syntheses of inorganic compounds. Daily 6–10. Four semester-hour credits. Assistant Professor SWETT.

S 7. *Qualitative Analysis*.—A brief course intended primarily for students in engineering. Daily 6–10. Four semester-hour credits. Assistant Professor SWETT.

Economics and Sociology

S 1a. *General Economics*.—An outline course in the principles of political economy, devoted mainly to the study of the processes of fixing market prices and to a study of the problems of rent, interest, wages, and profits. At 10. Two semester-hour credits. Professor KERN.

S 22. *General Sociology*.—An outline course in the principles of sociology devoted mainly to the study of the organization of society, the social systems, their functions, efficiencies, and programs for their development. At 11. Two semester-hour credits. Professor KERN.

S 40. *Economic History of the United States*.—Conditions that led to the colonization of this continent; growth of industry, agriculture, commerce, transportation; labor and capital; industrial and commercial problems of to-day. Daily at 6. Three semester-hour credits. 45 periods. Assistant Professor Kochenderfer

S 46. *Economic Background of World Politics*.—The economic development of Europe during the past hundred years; rival imperial ambitions in the Far East, the Balkans, etc.; economic issues leading up to the world war; immigration, socialism, social reform measures, social insurance, agrarian problems. Daily at 5. Three semester-hour credits. 45 periods. Assistant Professor Kochenderfer.

Education

S 21b. *Principles of Education*.—A course in the bases, aims, values, and materials of education. Among the topics considered are: education and heredity, ultimate and proximate aims, mental discipline, values and subject-matter, the curriculum and course of study. At 9. Two semester-hour credits. Professor RUEDIGER.

S 25b. *Secondary Education*.—A course in the aims, principles and methods underlying the effective presentation of the various high school branches. Each of the leading branches will be considered in the light of its relation to life, essential content, realistic approach and meaningful mastery. At 10. Two semester-hour credits. Professor RUEDIGER.

S XXXI. *Educational Measurements*.—The aim of this course is to develop an understanding of the leading standardized scales and tests that have been advanced for elementary and secondary school subjects and to give some practice in their use. At 8. Two semester-hour credits. Mr. RYAN.

English

S 2. *English Rhetoric*.—A course covering the entire text of English Rhetoric. 5-7. Four semester-hour credits. Professor WILBUR.

S 11. *English Composition*.—Practice in self-expression; correction of common errors; facility in writing; methods of research; the short story. Theme work, class discussion, and lectures. At 8. Two semester-hour credits. Dr. BRIGHAM.

NOTE. The completion of courses S 2 and S 11 together will be accepted in full satisfaction of the curriculum requirement in Freshman English.

S 26. *American Poetry*.—Studies of American ideals as revealed in poetry. At 8. Two semester-hour credits. Professor WILBUR.

S 29. *The Modern Drama*.—The drama since 1890. Lectures and readings. At 11. Two semester-hour credits. Professor CROISSANT.

S 32. *Literary Criticism*. A discussion of the types of literature with collateral reading. At 10. Two semester-hour credits. Professor CROISSANT.

French

See Romance Languages

Geology

S 2. *Geology*.—Systematic geology; dynamical, structural and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-book: Cleland's Geology. 6-8. Four semester-hour credits. Dr. RESSER.

S 3. *Principles of Geography*.—This course considers the phenomena of the earth as a whole, the interrelations of these phenomena and their influence upon human affairs. It includes a study of the general geographical principles, including those of physiography and climate, and their application. At 5. Two semester-hour credits. Dr. RESSER.

German

S 6a. *Second-Year German*.—The translation of scientific texts. This course is the equivalent of the work done in the first semester of

the University. Daily at 5. Three semester-hour credits. 45 periods. Professor SCHMIDT.

S 6b. A continuation course extending beyond the session of the Summer School will be offered either in Scientific German or in Classical German, as those who apply may prefer. Three credits. Professor SCHMIDT.

S IV. *Conversation and Rapid Reading*. This course is open to students who have had one year of college German or its equivalent. Daily at 6. Three semester-hour credits. 45 periods. Professor SCHMIDT.

S 2a. *First-Year German* or S 8a *Third-Year German* will be given if requested by at least six students.

History

S 20b. *American History*.—History of the United States from the election of Andrew Jackson. Daily at 5. Three semester-hour credits. 45 periods. Assistant Professor ALDEN.

S 31. *Modern European History*.—This course will trace the evolution of the spirit of nationalism and the formation of the European states since the French Revolution and give the historical setting of the present war. Daily at 6. Three semester-hour credits. 45 periods. Mr. KATSER.

Mathematics

S 4a. *College Algebra*.—Bowser's College Algebra. Ratio and proportion. Chapter XVI to the end of the book. Daily at 6. Three semester-hour credits. 45 periods. Mr. HODGKINS.

S 4b. *Plane Trigonometry*.—Crocket's Trigonometry. All of plane trigonometry. At 5. Two semester-hour credits. Mr. HODGKINS.

NOTE. These courses will be duplicated respectively at 9 and at 10 by Professor HODGKINS if the demand justifies.

Philosophy and Psychology

S 1. *General Psychology*.—An introductory study of the principal facts and laws of the mental life. At 9. Two semester-hour credits. Professor RICHARDSON.

S 3. *Logic*.—The principles of deductive and inductive inference. At 10. Two semester-hour credits. Professor RICHARDSON.

S XXIII. *Introduction to Philosophy*.—A course, designed for beginners in philosophy, dealing with the nature of philosophy, the principles underlying it, and the principal theories that have arisen in the development of philosophic thought. This course is intended to give a general survey of the subject and to lead to more advanced work. At 11. Two semester-hour credits. Professor RICHARDSON.

Physics

S 2a. Laboratory Physics. Thirty two-hour periods. Two semester-hour credits. 5-7. Assistant Professor BROWN.

S 3a. Introductory General Physics. 45 periods. Three semester-hour credits. 6-7. Assistant Professor BROWN.

Political Science

S 1a. *Government of the United States*. This course includes a brief study of the factors that led to union among the colonies, of the second Continental Congress, the Articles of Confederation and of the organization and functions of the federal government. Daily at 5. Three semester-hour credits. 45 periods. Professor HILL.

S XXII. *Our International Relations*.—A study of the place of the United States in the family of nations: The historical setting of our leading treaties, a sketch of the negotiators and their work, the bearing of the terms of the treaties on later events. Daily at 6. 45 periods. Three semester-credits. Professor HILL.

Romance Languages

French

S 2a. *First-Year Course*.—Essentials of French grammar, drill in pronunciation; oral and written composition; translation of modern French prose. Practice in military French, if desired. For beginners. Fraser and Squair's French Grammar (Heath). Daily at 6. 45 periods. Three semester-hour credits. Assistant Professor DOYLE.

S 4a. *Second-Year Course*.—Review of French Grammar (Fraser and Squair's French Grammar, Heath); oral and written composition; translation of modern French prose. Special attention to military French, if desired. First text Sarcey's *Le Siège de Paris* (Heath); others to be announced. Open to students who have received credit for one year of College French, or its equivalent. Daily at 7. 45 periods. Three semester-hour credits. Assistant Professor DOYLE.

Spanish

S 2a. *First-Year Course*.—Elements of Spanish Grammar; drill in pronunciation; oral and written composition; translation of modern Spanish prose. Texts: Hills and Ford's *First Spanish Course* (Heath); De Vitis' *Spanish Reader* (Allyn & Bacon). Daily at 5. 45 periods. Three semester-hour credits. Assistant Professor DOYLE.

S 3a. *Second-Year Course*.—If six or more students apply, a course in second-year Spanish will be provided, with special attention to conversation and commercial correspondence, if desired. Daily at 8. 45 periods. Three semester-hour credits. Assistant Professor DOYLE.

DEPARTMENT OF MEDICINE, INCLUDING THE
MEDICAL SCHOOL, UNIVERSITY HOSPITAL AND
DISPENSARY, THE TRAINING SCHOOL FOR
NURSES, AND THE DENTAL SCHOOL

MEDICAL SCHOOL

FACULTY

CHARLES HERBERT STOCKTON, LL.D.

President of the University (To September 1, 1918)

WILLIAM MILLER COLLIER, LL.D.....President Elect of the University

WILLIAM CLINE BORDEN, M.D.,

Dean, Department of Medicine and Professor of Surgery

GEORGE NICHOLAS ACKER, A.M., M.D.,

Professor of Pediatrics and Clinical Professor of Medicine

HENRY CRÈCY YARROW, M.D.....Professor of Dermatology, Emeritus

DANIEL KERFOOT SHUTE, A.B., M.D.,

Clinical Professor of Ophthalmology

STERLING RUFFIN, M.D.....Professor of Medicine

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor of Chemistry

CHARLES WILLIAMSON RICHARDSON, M.D.,

Professor of Laryngology, Rhinology, and Otology

JOHN WESLEY BOVÈE, M.D.....Professor of Gynecology

THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

FRANCIS RANDALL HAGNER, M.D...Professor of Genito-Urinary Surgery

WILLIAM CREIGHTON WOODWARD LL.M., M.D.,

Professor of Medical Jurisprudence

ALBERT LIVINGSTON STAVELY, M.D...Clinical Professor of Gynecology

WILLIAM ALANSON WHITE, M.D.,

Professor of Psychiatry and Clinical Professor of Neurology

SHEPHERD IVORY FRANZ, Ph.D., LL.D., M.D..Professor of Physiology

WILLIAM KENNEDY BUTLER, A.M., M.D...Professor of Ophthalmology

BUCKNER MAGILL RANDOLPH, M.D.,

Professor of Materia Medica and Therapeutics

*LUTHER HALSEY REICHELDERFER, M.D., Clinical Professor of Surgery

LOUIS ANATOLE LaGARDE, M.D.,

Professor of Military Surgery and Sanitation

GIDEON BROWN MILLER, S.B., M.D...Clinical Professor of Gynecology

OSCAR BENWOOD HUNTER, S.M., M.D.,

Professor of Bacteriology and Pathology

*Absent on Military Service.

WILLIAM SINCLAIR BOWEN, M.D.....Clinical Professor of Obstetrics
OSCAR ADDISON MACK McKIMMIE, M.D.,

Clinical Professor of Laryngology and Otology

CARL LAWRENCE DAVIS, M.D.....Professor of Anatomy

*EDWARD RHODES STITT, A.B., M.D....Professor of Tropical Medicine

FRANK LEECH, M.D.....Clinical Professor of Medicine

WILLIAM PHILLIPS CARR, M.D.....Clinical Professor of Surgery

HURON WILLIS LAWSON, S.M., M.D.....Professor of Obstetrics

FRANK ADELBERT HORNADAY, S.B., M.D.....Professor of Chemistry

THOMAS CHARLES MARTIN, M.D.....Professor of Proctology

*HARRY HYLAND KERR, M.D.....Clinical Professor of Surgery

WILLIAM PINKNEY REEVES, M.D.....Clinical Professor of Surgery

EDGAR SNOWDEN, M.D.,

Professor of Hygiene and Clinical Associate in Obstetrics

TRUMAN ABBE, M.D.....Professor of Roentgenology

MONTGOMERY EARL HIGGINS, M.D.....Professor of Tropical Medicine

JAMES CHAMBERS PRYOR, A.M., M.D.,

Professor of Preventive Medicine

CHARLES STANLEY WHITE, M.D.....Associate Professor of Surgery

DANIEL LERAY BORDEN, A.M., M.D....Associate Professor of Surgery

DORRELL GHIO DICKERSON, M.D.,

Associate Professor of Pharmacology and Physiology

DANIEL WEBSTER PRENTISS, S.B., M.D., Clinical Associate in Surgery

JOHN BENJAMIN NICHOLS, M.D.... Associate in Medicine and Dietetics

EDGAR PASQUAL COPELAND, M.D.....Associate in Pediatrics

HARRY HAMPTON DONNALLY, A.M., M.D.,

Clinical Associate in Pediatrics

HENRY RANDALL ELLIOTT, M.D.....Associate in Physiology

J. LEWIS RIGGLES, M.D.....Associate in Gynecology

*WILLIAM CABELL MOORE, M.D.....Associate in Medicine

CHARLES AUGUSTUS SIMPSON, M.D.,

Clinical Associate in Dermatology

COURSEN BAXTER CONKLIN, S.B., M.D.....Associate in Medicine

JOSEPH DECATUR ROGERS, M.D.,

Clinical Associate in Obstetrics and Surgery

ROBERT YOUNG SULLIVAN, M.D.....Clinical Associate in Obstetrics

CHARLES WHEATLEY, M.D.....Clinical Associate in Pediatrics

CHARLES WILBUR HYDE, M.D., Associate in Medicine and Anaesthesia

WILLIAM JOHNSTON MALLORY, A.M., M.D.....Associate in Medicine

J. LAWN THOMPSON, M.D.....Associate in Medicine

*EDWARD GRANT SEIBERT, M.D.,

Clinical Instructor in Laryngology and Ophthalmology

WALTER HIBBARD MERRILL, M.D.,

Instructor in Electro-Therapeutics and Roentgenology

* Absent on Military Service.

JOHN POTTS FILLEBROWN, M.D.....Clinical Instructor in Surgery
VIRGIL B. JACKSON, M.D.....Clinical Instructor in Gynecology
EDMUND THOMAS MURDAUGH FRANKLIN, M.D.,
Clinical Instructor in Surgery
ADAM KEMBLE, M.D., Clinical Instructor in Genito-Urinary Surgery
HOMER GIFFORD FULLER, M.D.,
Clinical Instructor in Genito-Urinary Surgery
CLINE N. CHIPMAN, M.D.....Instructor in Anaesthesia
*ALBERT PERKINS TIBBETS, A.B., M.D.,
Clinical Instructor in Laryngology
ELIJAH WHITE TITUS, Ph.D., M.D.....Instructor in Pediatrics
*WILLIAM HENRY HUNTINGTON, M.D.,
Clinical Instructor in Laryngology and Otology
JANVIER WHITTON LINDSAY, A.B., M.D.,
Instructor in Physical Diagnosis
HARRY SAMUEL LEWIS, M.D.....Instructor in Surgery
JOHN HUNTER SELBY, M.D.....Instructor in Roentgenology
ROBERT SAMUEL TRIMBLE, M.D.....Clinical Instructor in Medicine
WILLIAM BROWNE CARR, M.D.....Instructor in Morbid Anatomy
*OLIVER CLEMENCE COX, M.D.....Instructor in Minor Surgery
*WILLIAM BERRY MARBURY, M.D.....Instructor in Surgery
SAMUEL HARRISON GREENE, M.D.,
Clinical Instructor in Laryngology and Otology
*WILLIAM HOUSTON LITTLEPAGE, M.D., Clinical Instructor in Medicine
JAMES CHARLES HASSALL, M.D.,
Instructor in Psychiatry and Clinical Neurology
EVERETT MONROE ELLISON, A.M., M.D.,
Instructor in Pharmacology and Chemistry
WILLIAM DAVID TEWKSBURY, M.D....Clinical Instructor in Medicine
*THOMAS MADDEN FOLEY, M.D.....Instructor in Orthopedic Surgery
*CUSTIS LEE HALL, M.D....Clinical Instructor in Orthopedic Surgery
*HOWARD FRANCIS KANE, A.B., M.D.....Instructor in Obstetrics
ROSS McCLURE CHAPMAN, M.D.,
Instructor in Psychiatry and Neurology
*CARROL EDWARD BINGMAN, M.D....Clinical Instructor in Medicine
THOMAS LINVILLE, M.D.....Instructor in Medicine
THOMAS MILLER JR., M.D.....Clinical Instructor in Medicine
SAMUEL BOYCE POLE, M.D., Instructor in Medicine and
Clinical Instructor in Laryngology and Otology
FREDERICK WILLIAM WARDEN, R.A., M.R.C.S., L.R.C.P.,
Instructor in Surgery
NELSON DUVAL BRECHT, M.D.....Instructor in Gynecology
PATRICK V. GALLAGHER, D.D.S.....Instructor in Pathology
ROBERT READ RAFTER, M.D.....Instructor in Medicine

*Absent in Military Service.

FREDERICK Y. DONN, M.D.....Clinical Instructor in Obstetrics
 THOMAS A. POOLE, M.D.,

Clinical Instructor in Laryngology and Otology

JOHN MORRIS LADD, M.D.....Instructor in Histology

RALPH COHEN, M.D.....Instructor in Anatomy

WILLIAM BINFORD KING.....Instructor in Anatomy

BUILDINGS AND OTHER FACILITIES

Buildings of the Medical Department

All the buildings adjoin each other and consist of the Medical School Building and the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city within one block of both systems of car lines. As the Hospital and Dispensary adjoin the School, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the School laboratories.

Medical School Building.—A modern commodious, five-story structure, with spacious, well-lighted, well-ventilated lecture and class rooms, laboratories, and students' rooms. It has an elevator service, and is equipped throughout with steam heat, gas, electricity, and all modern improvements.

Laboratories.—Six in number (for anatomy, chemistry, physiological and clinical chemistry, histology and embryology, physiology and pharmacology, and bacteriology and pathology) are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods.

University Medical Library.—Open for study and consultation from 9 a.m. to 9 p.m. with a Librarian who is a graduate of Medicine in charge. It contains at present more than 2,000 volumes, and provision is made to add to it as published the important new works on medicine. The most important medical periodicals are regularly received. The library is an excellent working collection, as it affords opportunity to read up adequately on the subjects presented in the courses.

Pathological Museum.—Contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

ADVANTAGES OF LOCATION

Advantages of Washington as a place for pursuing the study of medicine

This city now has nearly half a million inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of about four thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the Faculty.

The great libraries and museums connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's Office of the United States Army is the most complete medical library in the world, and all leading medical periodicals of the world are subscribed for. All the facilities of this great library are open to *medical students*. There is also the Library of Congress, the Public Library, and the many excellent libraries of the various Government offices, all of which are open to students.

The *Army Medical Museum* affords an unrivaled opportunity for studying the conditions met with in military and general surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy and the National Museum which contains the most complete and best arranged collection of *materia medica* in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, and the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the *Army and Navy Medical Schools* have been here located. The Alumni of this School are largely represented in all public services, and have been highly successful in passing the rigid examinations given by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this School.

Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the General Government, are broad and national, make it an ideal place for a medical student to pass his four years of study.

ADMISSION

The requirements for admission to the Medical School are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission, effective January 1, 1918, are:

A. The minimum requirements for admission are fifteen units of secondary school work and two years of college work made up as follows:

Secondary School Units

Seven Required Units.—English, (Reading and Practice), 2 units; Algebra to quadratics, 1 unit; Plane Geometry, 1 unit; German or French, or Latin or Greek, 2 units; History, 1 unit.

Eight Elective Units.—To be selected from the following: English, Mathematics, Latin, Greek, German, French, Spanish, Scandinavian,

Science with laboratory work, Agriculture, Drawing, Manual Training, Domestic Science, Music or other secondary school subjects.

College Work

Not less than eight semester hours each in Chemistry, Physics and Biology, and not less than six semester hours each in English and a modern language, preferably French or German, with electives to make a total of 60 semester hours. It is strongly urged that the electives include a second year in Biology, Psychology, Mathematics, and additional courses in Chemistry. Twelve semester hours in Chemistry are required after January 1, 1919.

B. A Bachelor's degree from an approved college or University, provided the holder of such degree presents satisfactory credentials covering one year's college work in chemistry, physics, biology, English and a modern language preferably French or German.

A unit is the credit value of 36 weeks' work of five recitation periods per week, each period to be not less than 40 minutes. A point is a subject pursued through one-half the above time. Two points may be considered the equivalent of one unit.

An examination is given by the University in the latter part of May and September of each year to students who are deficient in whole or part of the subjects required for entrance to the Premedical Course. Candidates desiring examination must submit an application for the examination and submit certificates of character to the Dean before the first of the month in which they desire to be examined.

Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent of public instruction in States having no examining board may be accepted in lieu of any part of the examination.

As the laws relating to the preliminary educational qualifications required of physicians differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

Twenty-four states viz., Alabama, Arizona, Arkansas, Colorado, Indiana, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Montana, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Oklahoma, Rhode Island, South Carolina, South Dakota, Virginia, Washington and Wisconsin and the Territory of Alaska, require all applicants for license to practice who matriculate in 1918-1919 and after to have had two years of college work in addition to graduation in medicine.

Courses are offered by the University to meet the requirement in two years of college work necessary to enter the freshman class of Medicine.

SPECIAL COURSE FOR ADMISSION TO THE MEDICAL SCHOOL

First Year

	SEMESTER HOURS
*Chemistry 1 and 2.....	10
French or German.....	6
Zoology 1.....	6
English 1 or 2.....	6
Electives.....	2
Total.....	30

Second Year

	SEMESTER HOURS
Physics 3 and 2.....	10
Zoology 2.....	6
Electives (preferably Psychology, Mathematics and Chem- istry).....	14
Total.....	30

COURSES AND DEGREES OFFERED BY THE UNIVERSITY IN ADDITION TO
OR IN COMBINATION WITH THE COURSE FOR THE
DEGREE OF DOCTOR OF MEDICINE

The University offers a six-year combination course, by which a student may obtain the degree of Bachelor of Science in Medicine and Doctor of Medicine.

Admission to Columbian College

Applicants for admission to the Freshman Class in Columbian College for the combined courses leading to the degrees of Bachelor of Arts or Bachelor of Science in Medicine and Doctor of Medicine must meet the general admission requirements of fifteen units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirements must include English, 3 units; Mathematics, 2½ units, and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

SIX-YEAR COURSE FOR THE DEGREES OF BACHELOR OF SCIENCE IN
MEDICINE AND DOCTOR OF MEDICINE

Regular students in this course will complete in two years the prescribed work in college, at least twelve semester hours of which must be taken in Columbian College, and the four-year course in the Medical School. On the completion of this six-year course, the student will receive at the same time the degrees of Bachelor of Science in Medicine

*Twelve semester hours required after January 1, 1919.

and Doctor of Medicine. The curriculum for the combined six-year course is as follows:

a. Columbian College

Freshman Year

	SEMESTER HOURS
Chemistry 1 and 2.....	10
English 1 or 2.....	6
French or German.....	6
Mathematics.....	6
Zoology 1.....	6
	<hr/> 34

Sophomore Year

	SEMESTER HOURS
Chemistry 7 and 23.....	8
French or German.....	6
Philosophy including Psychology.....	6
Physics 3 and 2.....	10
Zoology 2.....	6
	<hr/> 36

b. Medical School

The four-year course for the degree of Doctor of Medicine.

SEVEN-YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS AND DOCTOR OF MEDICINE

Regular students in this course will complete at least 90 semester hours as prescribed in Columbian College and the first year course in the Medical School. On completion of the prescribed 90 semester hours of college work and the first year of the regular course in Medicine, the student will receive the degree of Bachelor of Arts.

The hours of prescribed work, at least 12 semester hours of which must be taken in Columbian College, are as follows:

Columbian College:

SUBJECT	SEMESTER HOURS
Zoology, 1, 2.....	12
Chemistry 1, 2, 7, 23.....	18
English.....	6
French and German.....	18
History.....	6
Mathematics.....	6
Physics 3 and 2.....	10
Philosophy.....	6
Electives (including not to exceed 30 semester hours in Medicine).....	38

ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students who have attended one or more terms at any other medical college in good standing, and who have the necessary preliminary educational requirements, may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this School.

Students who have been in attendance upon an Arts course in other accredited colleges or universities may be admitted to advanced standing in any of the premedical courses offered by the University upon examination or upon presentation of properly certified evidence of satisfactory completion of work for which credit is asked.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students to any of the courses, provided they have the educational attainments which will enable them to pursue properly the studies they elect.

ACADEMIC YEAR

The *Academic Year* begins on the last Wednesday in September and ends on the Wednesday following the Wednesday nearest the first day of June. It is divided into two half-years of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of thirty-two weeks each, exclusive of vacations and holidays. The next session, the ninety-sixth, begins September 25, 1918, and ends June 11, 1919.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

SYSTEM OF INSTRUCTION

Instruction is carried on by laboratory work, lectures, recitations, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material of the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical School are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to ground thoroughly the students in the knowledge which is necessary to a practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner

The policy adopted by the School is to give a comprehensive, well graded and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.

ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table. Major subjects are in italics:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<i>Anatomy.</i>	<i>Anatomy.</i>	<i>Medicine.</i>	<i>Medicine.</i>
<i>Histology.</i>	<i>Physiological</i>	<i>Surgery.</i>	<i>Surgery.</i>
<i>Embryology.</i>	<i>Chemistry.</i>	Fractures and	Orthopædics.
<i>Physiology.</i>	<i>Pathology.</i>	Dislocations.	Genito-Urinary
<i>Chemistry.</i>	<i>Bacteriology.</i>	Clinical	Diseases.
	<i>Materia Medica.</i>	Microscopy.	Operative
	<i>Pharmacology.</i>	<i>Obstetrics.</i>	Surgery.
	<i>Minor Surgery.</i>	<i>Therapeutics.</i>	Military
	Physical	Roentgenology.	Surgery and
	Diagnosis.	Radiotherapy.	Sanitation.
	Pathological	<i>Gynecology.</i>	<i>Obstetrics.</i>
	Physiology.	Medical	<i>Gynecology.</i>
	Hygiene.	Jurisprudence.	Laryngology
	Psychology.	Clinical	and Otology.
		Chemistry.	Ophthalmology
		Dietetics.	Dermatology.
		Tropical	Psychiatry.
		Medicine.	Pediatrics.
		<i>Clinics.</i>	Neurology.
			<i>Clinics.</i>

The *clinics* above listed comprise the medical, surgical, and other clinics given in the third and fourth years, and are as hereafter noted under the announcements of the different clinical subjects.

PROFESSIONAL DEPARTMENTS

OUTLINE OF CURRICULUM

Hours of Required Work in Each Subject

(On the basis of 32 actual weeks in each year)

SUBJECTS	YEARS	HOURS	
		Totals*† Didac- tic, Lab. and Clinical	Didactic not to exceed
Anatomy.....	I	440	90
Anatomy.....	II	210	30
		— 650	— 120
Histology and Embryology.....	I	267	60
		— 267	— 60
Chemistry.....	I	308	90
Chemistry.....	II	100	30
		— 408	— 120
Physiology.....	I	184	72
Physiology.....	II	68	32
		— 252	— 104
Psychology.....	II	32	32
		— 32	— 32
Bacteriology.....	II	126	30
Pathology.....	II	282	60
		— 408	— 90
Hygiene.....	II	32	32
		— 32	— 32
Dietetics.....	III	24	24
		— 24	— 24
Pharmacology.....	II	140	28
Materia medica.....	II	48	48
Therapeutics.....	III	64	64
Radiotherapy.....	III	8	8
		— 260	— 148
Gynecology.....	III and IV	144	48
		— 144	— 48
Obstetrics.....	III and IV	192	64
		— 192	— 64

* The number of hours represents the amount of time *each* student devotes to the course. In addition to the hours scheduled in the third and fourth years, each student is required to do satisfactorily considerable practical work: he is assigned to cases in the University and Garfield Hospitals, is required to assist at operations, to attend cases of labor, administer anaesthetics, attend autopsies, and to take the history of cases. Fully 120 hours annually are required to do this unscheduled work.

† Subject to variation.

SUBJECTS	YEARS	HOURS (continued)	
		Totals Didac- tic, Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		606	200
Clinical Microscopy.....		48	16
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
Clinical Chemistry.....		48	12
		— 1098	— 376
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery and Sanitation		16	16
Ophthalmology.....		64	16
Otology and Laryngology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedics.....		48	16
		— 848	— 268
Grand totals.....		4615	1486

ANATOMY

CARL LAWRENCE DAVIS, M.D.....	Professor
WILLIAM BINFORD KING.....	Instructor
JOHN MORRIS LADD, M.D.....	Instructor in Histology
RALPH COHEN, M.D.....	Instructor

The instruction in the various anatomical sciences—gross human anatomy, neurology, embryology and histology—is carried on by the Division of Anatomy of which the Professor of Anatomy is the head.

This insures complete correlation of the various anatomical branches and adequate instruction in each.

During the first year the course in Gross Anatomy is given mainly by practical laboratory work.

The greater portion of the course is given during the first year thus enabling the student to apply his early knowledge of Anatomy to his other branches of study. Each student is required to dissect satisfac-

torily the lateral half of a cadaver. The dissecting room work is supplemented by demonstration, recitation and lectures, illustrated by lantern slides, models, diagrams and special dissections. The systematic study of the gross and minute anatomy of the central nervous system and organs of special sense is pursued by means of lectures, recitations, and laboratory work.

In the second year a course in applied anatomy is given, in which recitations and laboratory demonstrations, and special dissections are used to familiarize the student thoroughly with the subject.

Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Anatomy.....	I	440	90
Anatomy.....	II	210	30
		— 650	— 120

In Histology instruction is given in the care and use of the microscope and in the preparation of tissues (fixing, blocking, cutting, staining, etc.) for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by lectures, recitations and stereopticon demonstrations.

The course in Embryology is devoted to the study of marine material, showing maturation, impregnation, segmentation, etc., and to series of chick and mammalian embryos, special stress being laid upon the development of the foetal membranes and organs. Lectures, recitations and demonstrations with laboratory models are also given.

SUBJECT	YEAR	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Histology and Embryology.....	I	267	60
		— 267	— 60

PHYSIOLOGY

SHEPHERD IVORY FRANZ, Ph.D., LL.D., M.D.....	Professor
DORRELL GHIO DICKERSON, M.D.....	Associate Professor
HENRY RANDALL ELLIOTT, M.D.....	Associate

The course in physiology consists of lectures, recitations, demonstrations, laboratory exercises and conferences during the first and second years. It begins in the second-half of the first year, so that the student is early in his course in medicine introduced to the functional viewpoint. The functions of the nervous system and special senses, of the blood, of the heart and circulatory system, of glands, of the digestive system, of the respiratory mechanisms, and of reproduction are considered by means of lectures and recitations, and, as far as practicable, experimentally. In the laboratory each student performs the main experiments illustrating the facts regarding bodily function, and demonstration experiments are given of those functions which are too complex for the student to perform himself. In this laboratory work each student is required to keep records of his experiments, and each experiment is supervised and the record criticized and checked by one of the instructors before the student leaves the laboratory for the day. The class is divided into sections for oral recitations, which are supplemented by written recitations.

After the completion of the work in normal physiology in the second year, a series of laboratory exercises on the physiological action of drugs is given (see the announcement under Department of Pharmacology and Therapeutics), and in conjunction with that laboratory work lectures are given and recitations are held in which the functional disturbances in disease are considered. In this course special attention is given to the abnormalities of action of the heart and circulatory system, to the mechanical disturbances in respiration, and to the disturbances of the nervous system and the special senses. By this course it is intended to bring the course in normal physiology into closer relations with the succeeding courses in Pathology, Therapeutics and General Medicine.

The course in psychology aims to give, by lectures and conferences, the main facts regarding mental processes, and to develop the psychological aspect of medicine, upon which so much emphasis has recently been laid. The course is primarily medical in its treatment and thus deals with pathological as well as normal mental phenomena, but without encroaching upon the courses in Psychiatry and Neurology.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Physiology.....	I	184	72
Physiology.....	II	68	32
		— 252	— 104
Psychology.....		32	32

CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....	Professor
FRANK ADELBERT HORNADAY, S.B., M.D.	Professor
EVERETT MONROE ELLISON, A.M., M.D.....	Instructor

Inorganic Chemistry.—A series of recitations, in which the subject is reviewed and its relation to medicine emphasized.

Qualitative Analysis.—A laboratory course on methods of separating and identifying the commoner metallic elements and acid radicals and the application of such methods in medicine.

Organic Chemistry.—A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

Physiological Chemistry.—A series of lectures, recitations and laboratory work on food stuffs, including carbohydrates, proteins and fats, their properties, reactions, digestion, absorption and assimilation. Careful consideration is given to enzymes and to the various secretions of the body.

Clinical Chemistry.—A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Chemistry.....			
Inorganic Review	I	258	90
Qualitative Analysis			
Organic			
Physiological.....	I, II	150	30
*Clinical Chemistry.....	III	48	12
		408	120

MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS

BUCKNER MAGILL RANDOLPH, M.D.....	Professor
DORRELL GHIO DICKERSON, M.D.....	Associate Professor
WALTER HIBBARD MERRILL, M.D.....	Instructor
EVERETT MONROE ELLISON, A.M., M.D.....	Instructor

Second Year.—(1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Prac-

See also announcement under Medicine.

tical exercises in prescription writing. (4) Demonstrations of drugs. (5) Pharmacology. The course in Pharmacology is given in the second year, having two three-hour laboratory periods and a one-hour recitation period each week. During the laboratory exercises the students, divided into small groups under instructors, investigate the action of the most common drugs, including alcohol, ether, chloroform, digitalis, aconite, strychnine, etc., by actual experiment particular emphasis being given to toxicology of potent drugs. They are taught what effects to expect from the use of a given drug and to observe the results as they occur. The number of drugs covered in this work is about seventy, including both inorganic and organic series. Individual quiz work is also conducted at each table during the laboratory period.

Third Year.—(1) Systematic lectures and recitations on the physiological action of drugs and other remedial agents, as demonstrated by laboratory experiment and clinical application; their therapeutic use in disease; their modes of administration; and a review of their toxicology. (2) A review of the principles of prescription writing, with practical exercises by students in writing prescriptions in the metric and English systems. (3) Lectures in applied therapeutics, devoted to the study of the application of remedial measures to morbid physiological and pathological states, as they occur clinically. (4) Lectures and section demonstrations in electro-therapeutics and Roentgen therapy.

SUBJECT	YEAR	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Pharmacology.....	II	140	28
Materia Medica and Toxicology...	II	40	40
Therapeutics.....	III	64	64
Radiotherapy.....	III	8	8
		— 252	— 140

DIETETICS

JOHN BENJAMIN NICHOLS, M.D.....Associate

A course of lectures on the physiology of nutrition and principles of feeding in health and disease.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic
Dietetics.....	III	24	24

PATHOLOGY AND BACTERIOLOGY

OSCAR BENWOOD HUNTER, S.M., M.D.....Professor
 PATRICK V. GALLAGHER, D.D.S.....Instructor in Pathology
 JOHN MORRIS LADD, M.D.....Instructor in Pathology

WILLIAM BROWNE CARR, M.D.....Instructor in Morbid Anatomy

BACTERIOLOGY

The didactic portion of the course in Bacteriology consists of a series of about thirty formal lectures in which the entire field of bacteriology including immunology in its application to human medicine and welfare is considered. The first few lectures are necessarily limited to the consideration of the general principles of the science after which the pathogenic microorganisms are discussed in a systematic sequence, with the theories of immunity treated of in appropriate places.

In the laboratory portion of the course which occupies about three-quarters of the total time devoted to the subject the students first prepare all the standard culture media and learn the general principles of bacteriologic technic from the study of about a dozen typical, widely different non-pathogenic organisms. Subsequently twenty-five to thirty pathogenic bacteria are carefully examined by microscopic, cultural and serologic methods. The students prepare as far as practicable such special media as are needed for this latter work. In addition to this systematic examination of characteristic organisms the students test the efficiency of the commonly employed germicides, prepare a vaccine, and in groups prepare agglutinating, hemolytic and other immune serums and use these as commonly employed in diagnosis. In connection with the preparation of culture media the principles of sterilization are covered. In the microscopic examination of bacteria the students are trained in the use of the high powers of the microscope, in the use of dark ground illumination, and are taught to make microscopic measurements.

During the course where occasion arises in connection with special cases of interest in the University Hospital or elsewhere unusual infections or rarely occurring processes of diagnosis, etc., are demonstrated. The routine bacteriologic and serologic work of the Hospital is done in the same laboratory where the students are working so that they have ample opportunity to observe the practical applications of bacteriology.

PATHOLOGY

In Pathology, the division of the course into laboratory and lecture teaching is followed, the amount of time devoted to each being about twice the corresponding time in Bacteriology. General pathology covering inflammation, repair, degenerations, the effects of plant (including bacteria) and animal parasites on the body, the effects of chemical and physical agents, the formation of new growths, etc., is first considered. This is followed by the special pathology of the organs and of the specific diseases.

The laboratory work consists primarily in the histologic study of diseased tissues and neoplasms. About two hundred sections are stained

and mounted by each student and become his individual property. These sections are carefully examined and studied by the student who makes colored pencil drawings of the characteristic lesions shown by them.

The microscopic study is supplemented by that of post-mortem material and that from the operating room and by specimens in the museum thus affording a knowledge of gross morbid anatomy.

Varying in number with the extent of material afforded, students have the opportunity of training in the details of post-mortem technic from the autopsy through the preparation, sectioning, and staining of the tissues to be studied, to their final diagnosis and report.

CLINICAL MICROSCOPY

In the course in Clinical Microscopy the student is trained in the counting of the red and the white blood cells, in the various methods of hemoglobin estimation, in differential leucocyte counting, in the study of malarial parasites, and such other parasites of the blood as opportunity affords, in the estimation of the coagulation time of the blood, etc., in the microscopic study of the sediments in normal and pathologic urines, in the microscopic examination of stomach contents, of the feces, including a detailed study of animal parasites and their eggs, in the microscopic examination of sputum, of spinal fluids, pleural exudates, etc., as material and opportunities afford. The significance and value of these findings as applied to pathology and diagnosis are considered.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Bacteriology.....	II	126	30
Pathology.....	II	282	60
		— 408	— 90
*Clinical Microscopy.....		48	16

MEDICINE

STERLING RUFFIN, M.D.....Professor
 GEORGE NICHOLAS ACKER, A.M., M.D.,

Professor of Pediatrics and Clinical Professor of Medicine
 THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,
 Professor of Medical Jurisprudence

WILLIAM ALANSON WHITE, M.D.,
 Professor of Psychiatry and Clinical Professor of Neurology

*See also announcement under Medicine.

*EDWARD RHODES STITT, A.B., M.D.	Professor of Tropical Medicine
MONTGOMERY EARL HIGGINS, M.D.	Professor of Tropical Medicine
EDGAR SNOWDEN, M.D.	Professor of Hygiene
FRANK LEECH, M.D.	Clinical Professor of Medicine
JOHN BENJAMIN NICHOLS, M.D.	Associate in Medicine and Dietetics
EDGAR PASQUAL COPELAND, M.D.	Associate in Pediatrics
HARRY HAMPTON DONNALLY, A.M., M.D.	Clinical Associate in Pediatrics
WILLIAM CABELL MOORE, M.D.	Associate in Medicine
CHARLES AUGUSTUS SIMPSON, M.D.	Associate in Dermatology
COURSEN BAXTER CONKLIN, S.B., M.D.	Associate in Medicine
CHARLES WHEATLEY, M.D.	Clinical Associate in Pediatrics
CHARLES WILBUR HYDE, M.D.,	Associate in Medicine and Anaesthesia
WILLIAM JOHNSTON MALLORY, M.D.	Associate in Medicine
ELIJAH WHITE TITUS, Phar.D., M.D.	Instructor in Pediatrics
JANVIER WHITTON LINDSAY, A.B., M.D.,	Instructor in Physical Diagnosis
ROBERT READ RAFTER, M.D.	Instructor in Medicine
ROBERT SAMUEL TRIMBLE, M.D.	Clinical Instructor in Medicine
*WILLIAM HOUSTON LITTLEPAGE, M.D.	Clinical Instructor in Medicine
JAMES CHARLES HASSALL, M.D.,	Instructor in Psychiatry and Clinical Neurology
WILLIAM DAVID TEWKSBURY, M.D.	Clinical Instructor in Medicine
ROSS MCCLURE CHAPMAN, M.D.,	Instructor in Psychology and Neurology
*CARROL E. BINGMAN, M.D.	Clinical Instructor in Medicine
THOMAS LINVILLE, M.D.	Instructor in Medicine
THOMAS MILLER, Jr., M.D.	Clinical Instructor in Medicine

Instruction in Medicine is so given as to conform to the most modern requirements. The work begins in the second year with a complete course in history-taking and normal physical diagnosis, and is continued through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.

The third-year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospital, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

* Absent on Military Service.

The system of ward clinics to small groups of students affords a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most two, senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Saint Elizabeth's Hospital, where there is a great wealth of material (see announcement of Psychiatry and Clinical Neurology).

SUBJECT	YEARS	HOURS	
		Total Didactic Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		606	200
*Clinical Microscopy.....		48	16
†Clinical Chemistry.....		48	12
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
		— 1098	— 376

TROPICAL MEDICINE

‡EDWARD RHODES STITT, A.B., M.D., Medical Director U.S.N., Professor
MONTGOMERY EARL HIGGINS, M.D.,

Past Asst. Surg., U. S. Naval Medical School, Professor

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

* See also announcement under Bacteriology and Pathology.

† See also announcement under Chemistry.

‡ Absent on Military Service.

PSYCHIATRY AND CLINICAL NEUROLOGY

WILLIAM ALANSON WHITE, M.D., Superintendent of Saint Elizabeth's Hospital.....	Professor
JAMES CHARLES HASSALL, M.D.....	Instructor
ROSS McCLURE CHAPMAN, M.D.....	Instructor

A series of lectures and clinics is given upon the subject of the psychoses in its various forms.

These clinics are given at Saint Elizabeth's Hospital which, with its more than three thousand beds, affords one of the largest clinics in this country.

Students are taught in the same classes with students of the Army and Navy Medical Schools.

PEDIATRICS

GEORGE NICHOLAS ACKER, A.M., M.D.....	Professor
EDGAR PASQUAL COPELAND, M.D.....	Associate
HARRY HAMPTON DONNALLY, M.D.....	Clinical Associate
CHARLES WHEATLEY, M.D.....	Clinical Associate
ELIJAH WHITE TITUS, Phar.D., M.D.....	Instructor in Pediatrics

Didactic and clinical lectures, bedside and dispensary clinics are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.

PHYSICAL DIAGNOSIS

*WILLIAM CABELL MOORE, M.D.....	Associate
J. LAWN THOMPSON, A.M., M.D.....	Associate
JANVIER WHITTON LINDSAY, A.B, M.D.....	Instructor
THOMAS LINVILLE, M.D.....	Instructor

Instruction is given in the principles and methods of physical examination by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

DERMATOLOGY

RANDOLPH BRYAN CARMICHAEL, M.D.....	Professor
CHARLES AUGUSTUS SIMPSON, M.D.....	Associate

The lectures in this course will be principally clinical, supplemented by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.

MEDICAL JURISPRUDENCE

WILLIAM CREIGHTON WOODWARD, LL.M., M.D.....	Professor
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* Abstract on Military Service.

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

SURGERY

WILLIAM CLINE BORDEN, M.D.....Professor
DANIEL KERFOOT SHUTE, M.D....Clinical Professor of Ophthalmology
CHARLES WILLIAMSON RICHARDSON, M.D.,

Professor of Laryngology and Otology

AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery
FRANCIS RANDALL HAGNER, M.D.,

Professor of Genito-Urinary Diseases and Venereal Diseases

WILLIAM KENNEDY BUTLER, M.D.....Professor of Ophthalmology

*LUTHER HALSEY REICHELDERFER, M.D.....Clinical Professor

LOUIS ANATOLE LA GARDE, M.D.

Professor of Military Surgery and Sanitation

OSCAR ADDISON MACK MCKIMMIE, M.D.,

Clinical Professor of Laryngology and Otology

THOMAS CHARLES MARTIN, M.D.....Professor of Proctology

HARRY HYLAND KERR, M.D.....Clinical Professor

WILLIAM PINKNEY REEVES, M.D.....Clinical Professor

CHARLES STANLEY WHITE, M.D.....Associate Professor

DANIEL LERAY BORDEN, M.A., M.D.....Associate Professor

WILLIAM F. SOWERS, M.D.....Clinical Associate

TRUMAN ABBE, M.D.....Professor

DANIEL WEBSTER PRENTISS, S.B., M.D.....Clinical Associate

COURSEN BAXTER CONKLIN, S.B., M.D....Associate in Anaesthesia

JOSEPH DECATUR ROGERS, M.D.....Clinical Associate

CHARLES WILBUR HYDE, M.D.....Associate in Anaesthesia

*EDWARD GRANT SEIBERT, M.D., Clinical Instructor in Ophthalmology

JOHN POTTS FILLEBROWN, M.D.....Clinical Instructor

EDMUND THOMAS MURDAUGH FRANKLIN, M.D....Clinical Instructor

ADAM KEMBLE, M.D....Clinical Instructor in Genito-Urinary Surgery

HOMER GIFFORD FULLER, M.D.,

Clinical Instructor in Genito-Urinary Surgery

CLINE N. CHIPMAN, M.D.....Instructor in Anaesthesia

*ALBERT PERKINS TIBBETS, M.D.,

Clinical Instructor in Laryngology and Otology

*WILLIAM HENRY HUNTINGTON, M.D.,

Clinical Instructor in Laryngology and Otology

HARRY SAMUEL LEWIS, M.D.....Clinical Instructor

*OLIVER CLEMENCE COX, M.D.....Instructor in Minor Surgery

*WILLIAM BERRY MARBURY, M.D.....Instructor

*CUSTIS LEE HALL, M.D....Clinical Instructor in Orthopedic Surgery

* Absent on Military Service.

SAMUEL BOYCE POLE, M.D.,	Clinical Instructor in Laryngology and Otology
FREDERICK WILLIAM WARDEN, R.A., M.R.C.S., L.R.C.P.,	Clinical Instructor
ALBERT JOHN MOLZAHN, M.D.....	Instructor
THOMAS A. POOLE, M.D.,	Clinical Instructor in Laryngology and Otology
WILLIAM PLEASANT WOOD, M.D.,	Clinical Instructor in Laryngology and Otology

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.

Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anaesthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown.

Ward clinics and bedside instruction are made a prominent part of the course. The classes are divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals and dispensaries. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Practical work is required of each student in the preparation of dressings and sterilization of instruments. Each student is required to give, under instruction, at least six anaesthesias and to assist in at least six operations.

Thorough courses are given in operative surgery and proctology.

SUBJECT	YEARS	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery and Sanitation		16	16
Ophthalmology.....		64	16
Laryngology and Otology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedics.....		48	16
		— 848	— 268

ORTHOPEDICS

AURELIUS RIVES SHANDS, M.D.....Professor
 *THOMAS MADDEN FOLEY, M.D.....Instructor in Orthopedic Surgery
 *CUSTIS LEE HALL, M.D.....Clinical Instructor

A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of Paris to the correction of deformities.

GENITO-URINARY DISEASES

FRANCIS RANDALL HAGNER, M.D.....Professor
 HOMER GIFFORD FULLER, M.D.....Clinical Instructor
 ADAM KEMBLE, M.D.....Clinical Instructor
 WILLIAM G. YOUNG, M.D.....Clinical Instructor
 CHARLES O. KNOTT, M.D.....Clinical Instructor

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

MILITARY SURGERY AND SANITATION

LOUIS ANATOLE LA GARDE, M.D.....Professor

The treatment of gunshot wounds with special reference to civil practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens from a collection made after years of study and experimentation.

The use of the new armaments in recent wars and the characteristic features of the wounds caused by them, as well as the treatment of gunshot wounds in peace and war are dealt with in about eight lectures.

There will be eight additional lectures on Military Surgery and Military Hygiene.

*Absent on Military Service.

OPHTHALMOLOGY

WILLIAM KENNEDY BUTLER, A.M., M.D.	Professor
DANIEL KERFOOT SHUTE, A.B., M.D.	Clinical Professor
*EDWARD GRANT SEIBERT, M.D.	Clinical Instructor

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

LARYNGOLOGY AND OTOTOLOGY

CHARLES WILLIAMSON RICHARDSON, M.D.	Professor
OSCAR ADDISON MACK MCKIMMIE, M.D.	Clinical Professor
*EDWARD GRANT SEIBERT, M.D.	Instructor
*ALBERT PERKINS TIBBETS, A.B., M.D.	Clinical Instructor
*WILLIAM HENRY HUNTINGTON, M.D.	Clinical Instructor
SAMUEL HARRISON GREENE, M.D.	Clinical Instructor
SAMUEL BOYCE POLE, M.D.	Clinical Instructor
THOMAS A. POOLE, M.D.	Clinical Instructor
WILLIAM PLEASANT WOOD, M.D.	Clinical Instructor

The course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

OBSTETRICS

HURON WILLIS LAWSON, S.M., M.D.	Professor
WILLIAM SINCLAIR BOWEN, M.D.	Clinical Professor
EDGAR SNOWDEN, M.D.	Clinical Associate
JOSEPH DECATUR ROGERS, M.D.	Clinical Associate
ROBERT Y. SULLIVAN, M.D.	Clinical Associate
FREDERICK Y. DONN, M.D.	Clinical Instructor
HOWARD FRANCIS KANE, A.B., M.D.	Instructor

The course in obstetrics comprises lectures, recitations, laboratory demonstrations and clinical instruction and extends over the third and fourth years. The lectures serve to outline the subject matter and the recitations insure careful preparation on the part of the student. Special laboratory studies dealing with anatomy, embryology and pathology in relation to obstetrics are conducted in the different laboratories concerned. Models, manikins and cadavers are utilized in teaching the mechanism of labor and obstetrical operations. Clinical instruction is given to the classes in small sections at different hospitals and in the out-patient obstetrical service. Beginning about the mid-

* Absent on Military Service.

dle of the third year the student is given practical instruction in making antepartum examinations and he also observes the management of labor cases. During the fourth year he conducts, under the supervision of a paid instructor, twelve labor cases in the large and well-organized out-patient maternity service and submits written reports upon the cases attended.

SUBJECT	YEARS	HOURS	
		Totals	Didactic
		Didactic and Clinical about	not to exceed
Obstetrics.....	III and IV	192†	64

GYNECOLOGY

JOHN WESLEY BOVÉE, M.D.....	Professor
ALBERT LIVINGSTON STAVELY, M.D.....	Clinical Professor
GIDEON BROWN MILLER, M.D.....	Clinical Professor
NELSON DUVAL BRECHT, M.D.....	Instructor
VIRGIL B. JACKSON, M.D.....	Clinical Instructor

Gynecology as taught in the third year comprises a course of lectures, text-book recitations and clinical instruction. In the fourth year individual students are assigned to cases in the wards of the University Hospital, and the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater and ward clinics given by the Professor of Gynecology and his assistants.

SUBJECT	YEARS	HOURS	
		Total	Didactic
		Didactic and Clinical	not to exceed
Gynecology.....	III and IV	144	48

HYGIENE

EDGAR SNOWDEN, M.D.....	Professor
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The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative control of public health.

SUBJECT	YEAR	HOURS	
		Total	Didactic
		Didactic and Clinical	not to exceed
Hygiene.....	II	32	32

† The total number of clinic hours cannot be given, as each student is required to attend twelve cases, exclusive of the demonstration work and Ward and Dispensary Clinics above enumerated.

CLINICAL FACILITIES

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

University Hospital and the University Dispensary

H Street, between Thirteenth and Fourteenth Streets N. W. and adjacent to the Medical Building.—The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Medical School, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical work. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

Garfield Memorial Hospital

Florida Avenue and Tenth Street N. W.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital.

Members of the Faculty on the visiting staff: Professors CLAYTOR, and LEECH, Clinical Medicine; Professors *REICHELDERFER and *KERR, and *Dr. MARBURY, Clinical Surgery; Professors STAVELY and MILLER, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW, Consulting Physician; Professor BOWEN, Clinical Obstetrics.

Children's Hospital

W Street, between Twelfth and Thirteenth Streets N. W.—Regular instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department, to which students are regularly assigned for clinical instruction.

Members of the Faculty on the visiting staff: Professor YARROW, Consulting Physician, Professors *REICHELDERFER, *KERR and CHARLES S. WHITE, Clinical Surgery; Professors ACKER and LEECH and Drs. COPELAND and DONNALLY, Clinical Medicine; *Dr. HALL, Orthopedic Surgery.

Emergency Hospital and Central Dispensary

1711 New York Avenue.—This hospital has 100 charity beds, and has a very large out-patient service. The large emergency service gives receptional facilities in clinical surgery, particularly in fractures and dislocations which are taught in regular clinics by the instructor in this subject.

Members of the Faculty on the visiting staff: Professor HAGNER,

* Absent on Military Service.

Clinical Genito-Urinary Diseases; Professors WHITE and CARR, and Drs. PRENTISS, JACKSON and LEWIS, Surgery; *Dr. LITTLEPAGE, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS and Dr. FOLEY, Orthopedics; Professor SHUTE, Ophthalmology; Dr. ELLISON, Director of Clinics.

Columbia Hospital for Women

Twenty-fifth Street and Pennsylvania Avenue N.W.—This hospital has 40 charity beds for diseases peculiar to women, and 40 charity maternity beds. Both the obstetrical and the gynecological services are particularly good and are fully utilized for students.

Members of the Faculty on the visiting staff: Professors BOVÉE and MILLER, and Drs. D. L. BORDEN, RIGGLES and SULLIVAN, Clinical Gynecology; Professors LAWSON and BOWEN and Drs. RIGGLES and SNOWDEN, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFFIN, Visiting Physician; Dr. ABBE, Surgery; Dr. COPELAND, Pediatrics.

Saint Elizabeth's Hospital

This hospital is maintained by the United States Government. It has 3,000 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, Professor W. A. WHITE, and Drs. HASSALL and CHAPMAN. Other members of the Faculty on service at this hospital are Professor FRANZ; Professor SHUTE, Consulting Ophthalmologist; Professor RUFFIN, Consulting Physician.

Walter Reed General Hospital

This hospital is maintained by the United States Army and has at present about one thousand beds. Clinical instruction in surgery is given by Professor BORDEN and by Associate Professor DANIEL LERAY BORDEN. Other members of the faculty on service at this hospital are Professor RANDOLPH, Medicine; Dr. HUNTINGTON, Laryngology and Otology; Dr. SELBY, Roentgenology; and Dr. KEMBLE, Genito-Urinary Diseases.

Episcopal Eye, Ear, Throat, and Nose Hospital

Fifteenth Street, between L and M Streets N.W.—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Professor McKIMMIE and Drs. *HUNTINGTON and GREENE, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician; Dr. SIMPSON, Dermatology.

Lutheran Dispensary

Fourteenth and N Streets N.W.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff; Professor BUTLER, Surgeon-in-Charge; *Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

Casualty Hospital

Massachusetts Avenue N.E.—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Professor REEVES and Dr. ROGERS, Clinical Surgery; *Dr. HALL, Orthopedic Surgery; *Dr. KANE, Obstetrics.

Tuberculosis Hospital

Fourteenth and Upshur Streets N. W.—Members of the Faculty on its staff: Professor CLAYTOR, and Dr. TEWKSBURY, Clinical Medicine; *Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

CLASSIFICATION AND ADVANCEMENT OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz: first year, second year, third year and fourth year.

Proficiency in all subjects is marked on a scale of 100. The passing grade in each subject is 75.

Examinations are held at the end of the course in each subject. Students who fail to appear at a regular examination will not be examined until the next regular examination except by special permission of the Advisory Committee of the Faculty. For special examinations, a fee of five dollars will be charged for each subject.

To be *advanced*, a student must not fail in more than one major or two minor subjects. It is recommended that students advanced conditioned remove their conditions in the September examinations. Students advanced conditioned must remove all such conditions before they can be again advanced.

Students who fail in more than one major or two minor subjects, will not be given re-examinations in the September examinations except by special permission of the Advisory Committee of the Faculty.

Students who fail of graduation because of deficiency in but one major or two minors, if approved by the Advisory Committee of the Faculty, may be re-examined in the September examinations for graduation. Students who are allowed this privilege, will be required to take such examinations as the Advisory Committee may direct.

Students who fail of advancement or graduation will be required to repeat a year, taking such subjects as may be directed by the Advisory Committee of the Faculty.

*Absent on Military Service.

Students who fail of advancement after repeating any one of the first three years or who fail of graduation after repeating the final year, will not be permitted to maintain their connection with the school.

REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during four sessions of 32 weeks each in four separate years; must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire degrees must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."

PRIZES

A prize from the Ordonaux Prize Endowment will be awarded to the student of the third, and the student of the fourth year class who has the highest scholastic standing.

SOCIETIES

The George Washington University Medical Society was established in 1905 by a group of alumni. Its purpose is to cultivate closer friendly relations between the alumni and members of the faculty by means of social gatherings, and the advancement of medical science by the presentation of essays, case reports and specimens for instruction and discussion, at its meetings, and further the interest of the university in general. All alumni and members of the faculty are eligible for membership on election.

Officers: Dr. C. B. Conklin, *President*, Dr. W. G. Young, *Vice President*, Dr. Thomas Miller, Jr., *Secretary*, Dr. E. G. Seibert, *Treasurer*.

Meets at the Medical School on the third Saturday of the month from October to May.

Senior students are invited to attend the meetings of this society

HOSPITAL APPOINTMENTS

Interns are annually appointed in the University Hospital. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear and Throat Hospital.

FEES AND CONTINGENT EXPENSES

Registration fee, payable on entrance.....	\$5.00
Registration fee, each subsequent year.....	2.00
Tuition each year.....	175.00
Graduation fee.....	10.00
Breakage fee.....	10.00
Supplementary examinations each.....	5.00

This includes all laboratory fees and charges for material used in practical anatomy and operative surgery. Students will, however, be required to pay all charges for injury to microscopes, apparatus and other college property.

All breakage and loss not directly traceable to the individual student is assessed pro rata, and any unforfeited balance will be returned to the student at the expiration of the course.

Persons not candidates for the degree of Doctor of Medicine who take courses in Histology, Embryology, Bacteriology, Pathology or Clinical Microscopy will be charged a fee of \$6.00 for the use of the microscope in each of these courses. Should such a student take more than one of the courses mentioned, in any one school year, he will be charged a single fee of \$6.00 for microscope rental.

Students who elect to take the regular four year course in five years will be required to pay the full tuition for the first four years and will receive the fifth year without additional charge.

Persons are allowed to register as auditors for the tuition fees without being required to take active part in the exercises or to pass examinations but no credit will be allowed for such attendance.

No registration will be accepted for less than a full half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. Registration in the Medical School is for a period not to exceed one year at a time, and acceptance by the School of a student's registration fee does not in any way obligate the School to accept that student for any subsequent year.

Registration, other fees and deposits are due in full in advance. Tuition may be paid in eight monthly installments in advance. Stu-

dents who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond of \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Dean.

PREMEDICAL YEARS

Special Course Admitting to the Medical School but not Leading to a Degree in the Arts Department

Annual registration fee.....	\$2
Tuition, per annum.....	180
First Year	
Chemistry laboratory	
Materials.....	10
Breakage.....	10
Zoology	
Materials.....	5
Second Year	
Zoology	
Materials.....	5
Physics Laboratory	
Materials.....	10

If Chemistry 7 is elected, a \$10.00 fee for materials and a \$10.00 deposit fee will be required.

Courses Leading to the Degree of Bachelor of Science in Medicine

Annual registration fee.....	\$2
Tuition, per annum.....	180
First Year	
Chemistry laboratory	
Materials.....	10
Breakage.....	10
Zoology	
Materials.....	5
Second Year	
Chemistry laboratory	
Materials.....	10
Breakage.....	10
Zoology	
Materials.....	5
Physics	
Material fee.....	10

WITHDRAWALS

Withdrawals will be granted only on recommendation of the Dean and the approval of the President.

A certificate of work actually done will be given to any student granted a withdrawal or a transfer to another school during the session. A written request for withdrawal or transfer must be filed with the Dean and no permission to withdraw or transfer, and no certificate of work done will be given a student unless all fees and dues chargeable against him up to the end of the month in which he withdraws have been paid.

BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$30 to \$40 a month.

For catalogues, application blanks, and further information, address
THE DEAN

*Medical School,
The George Washington University,
1335 H Street N. W., Washington, D. C.*

THE GEORGE WASHINGTON UNIVERSITY TRAINING SCHOOL FOR NURSES

CHARLES HERBERT STOCKTON, LL.D.....	President of the University
WILLIAM CLINE BORDEN, M.D.....	Dean, Department of Medicine and Chairman of the Executive Committee
MARY WINIFRED GLASCOCK, R.N.....	Superintendent of the Hospital and Superintendent of Nurses and Principal of Training School
JOHN WESLEY BOVÉE, M.D.....	Gynecology
CHARLES WILLIAMSON RICHARDSON, M.D. } Ear, Nose and Throat
OSCAR ADDISON MACK McKIMMIE, M.D. }	
BUCKNER MAGILL RANDOLPH, M.D.....	Materia Medica
RANDOLPH BRYAN CARMICHAEL, M.D.....	Dermatology
ALBERT JOHN MOLZAHN, M.D.....	Anatomy
OSCAR BENWOOD HUNTER, S.M., M.D.....	Bacteriology
DORRELL GHIO DICKERSON, M.D.....	Physiology
EDGAR PASQUAL COPELAND, M.D.....	Pediatrics
DANIEL LERAY BORDEN, A.M., M.D.....	Surgery
EDGAR SNOWDEN, M.D.....	Obstetrics
EVERETT MONROE ELLISON, A.M., M.D.,	Medical Nursing and Contagious Diseases
TRUMAN ABBE, A.B., M.D.....	Bandaging
WILLIAM HOLLAND WILMER, M.D.....	Eye
FRANCES BECKWITH.....	Assistant Superintendent of Nurses
MARY F. GALLAGHER.....	Night Superintendent of Nurses
MARY KERNAN.....	Instructor in Massage
MARY MILLER.....	In charge of Nurses Home

The George Washington University Training School for Nurses in connection with the University Hospital, was opened February 28, 1903.

OBJECT AND ADMINISTRATION OF THE TRAINING SCHOOL

The object of the Training School is to give instruction to women in the art of nursing. It is under the general supervision of the President and Board of Trustees of the University and under the direct control of the Executive Committee of the Faculty of Medicine and under the immediate charge of the Superintendent of Nurses. The University Hospital is an integral part of the Medical School of the University and was founded primarily for teaching purposes. It has all the advantages arising from connection with a medical school of high grade.

The Staff of the Hospital are all members of the Faculty of Medicine of the Medical School and the nurses receive the benefit arising from instruction and nursing cases under these trained instructors.

The Hospital itself is a general hospital located in the central part of the city, and connected with it there is a Dispensary having a large out-patient service, so that the Institution affords a thorough and practical experience in medical, surgical, gynecological, obstetrical and emergency nursing and the administration work incident to a hospital.

The Nurses Home is located at 1016 13th street N.W., a short distance from the Hospital, and furnishes the nurses excellent and adequate accommodations.

BOARD OF LADY MANAGERS

Since the establishing of the Hospital and Training School for Nurses, both these Institutions have been very materially assisted by a most efficient Board of Lady Managers. This Board has worked most energetically in the interest of both the Hospital and Training School, and by personal endeavor and financial assistance have done much to improve these institutions.

REQUIREMENTS FOR ADMISSION

Candidates must apply personally or by letter to the Superintendent of Nurses upon blank forms provided therefor. Applicants must be not less than 19 nor over 30 years of age. They must be in good physical condition and present satisfactory evidence of their preliminary educational qualifications. Graduation from a grammar school and three years' work in a high school or academy or its equivalent are necessary. Approved applicants will be taken for a probationary period of four months as vacancies may occur. Such probationers as are deemed fitted for the duties of nurses, at the expiration of their probationary period, upon subscribing to the requirements of the school, will be accepted as pupil nurses.

Classes of probationers enter in January, May and September.

COURSE OF TRAINING

The course of training (including the probationary period) covers three years and comprises theoretical and practical instruction. Practical instruction is given in the wards of the Hospital under the supervision of the Superintendent of Nurses and at the Episcopal Eye, Ear and Throat Hospital, to which each pupil is assigned for a period of four months, as well as at the Children's Hospital during a two months' assignment there.

The theoretical instruction is given by the members of the Faculty of Medicine and by the Superintendent of Nurses and her assistants. The course in theoretical and practical instruction is as follows:

- (1) Medical nursing (including *Materia Medica*.)
- (2) Surgical nursing with operative technic, including gynecology.
- (3) Obstetrical nursing (each pupil to have had the care of not less than six cases).
- (4) Nursing of sick children.
- (5) Diet cooking for the sick including (a) twelve lessons in cooking in a good technical school or with a competent diet teacher; (b) Food values, and feeding in special cases, to be taught in classes and not in lectures.
- (6) A thorough course of theoretical instruction in contagious nursing where practical experience is impossible.
- (7) Bacteriology.

REGULATIONS

I. Probationers, when admitted to the school, will require the following outfit: *Uniform*. 3 uniform dresses, 2 uniform caps, 12 uniform aprons, 1 dozen pairs uniform cuffs;

Additional articles: 3 striped underskirts, 2 laundry bags, 1 pair slippers, 1 watch with second hand, 3 sets plain underclothing, 1 pair blankets for single bed, raincoat, 1 pair rubbers, summer and winter street suits, 1 party dress, 1 kimono, 2 washable dressing sacques, text-books.

II. The cost of the required uniform dresses, caps, aprons and cuffs is \$30. Text-books for the entire course cost about \$15. The cost of the other articles is small.

III. A probationer on admission may bring with her any or all of the articles of her outfit except her uniform. If she is unable to pay for her outfit, it will be furnished her by the hospital upon payment of ten dollars, and one-half her monthly pay will be retained until the cost of the articles is defrayed. All articles furnished by the hospital must remain in the hospital until she graduates.

IV. To insure uniformity and economy the uniform must be secured through the Superintendent of Nurses, and no nurse will be allowed to go on duty until her outfit has been inspected and found to comply with the requirements of the school.

V. All articles of clothing must be plainly made and marked with name in full.

VI. Jewelry is not allowed to be worn on duty, and if of any value is best left at home. If brought, it will be at the risk of the owner.

VII. Two hours, if work permits, are allowed every week day, for rest, study and recreation, also one-half day after 1 p.m. each week, and four hours each Sunday.

VIII. A vacation of two weeks is allowed each year, and in case of senior nurses, a vacation of four weeks will be allowed if the Hospital duties permit.

IX. A pupil nurse may be dismissed at any time if there is sufficient cause for such action, but no dismissal shall be made without the approval of the President of the University.

SALARY

Instruction and training are considered the full equivalent for the services of a pupil nurse; however, a salary of \$7 a month is paid (including the four months probation period.)

DIRECTORY FOR NURSES

A general directory for Graduate Trained Nurses was established in connection with the Training School and Hospital during the first year in which the Training School was in operation. The object of this directory is to afford a means to physicians and patients of securing with the least loss of time, the services of nurses who have graduated from our Training School. The Directory is under the supervision of the Executive Committee of the Faculty of Medicine and under the direct charge of the Superintendent of Nurses.

GRADUATES

June, 1916, Convocation

ETHEL ALBERTA BEAN.....	Maryland
CORA W. FRIDLEY.....	District of Columbia
ALICE ELLEN G. HAYDEN.....	Maryland
MARY BELLE HOOKS.....	Tennessee
SARAH A. SNELSON.....	North Carolina

Personal application should be made, or communication addressed to

THE SUPERINTENDENT OF NURSES,
GEORGE WASHINGTON UNIVERSITY,
TRAINING SCHOOL FOR NURSES,
1339 H St., N.W.
Washington, D. C.

DENTAL SCHOOL

FACULTY

- CHARLES HERBERT STOCKTON, LL.D....PRESIDENT OF THE UNIVERSITY
 WILLIAM MILLER COLLIER, LL.D.....President Elect
 J. ROLAND WALTON, D.D.S.....Dean and Professor of Prosthetic
 Dentistry, Crown and Bridge Work and Metallurgy
 HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry
 CHARLES EDWARD MUNROE, Ph.D., LL.D.Professor of Chemistry
 CHARLES STANLEY WHITE, M.D.....Clinical Professor of Oral Surgery
 NOBLE PRICE BARNES, M.D.,
 Professor of Materia Medica and Therapeutics
 OSCAR BENWOOD HUNTER, A.M., M.D.,
 Professor of Bacteriology and Pathology
 CARL LAWRENCE DAVIS, M.D.....Professor of Anatomy
 FRANK ADELBERT HORNADAY, S.B., M.D.,
 Professor of Chemistry and Metallurgy
 MILLARD FILLMORE THOMPSON, M.D.,
 Associate Professor of Oral Surgery
 CHARLES TURK BASSETT, D.D.S....Associate Professor of Professional
 Ethics and Economics. In Charge of the Dental Infirmary
 WILLIAM FRANCIS LAWRENCE, D.D.S.
 Associate Professor of Prosthetic Technics
 D. DEWITT BEEKMAN, D.D.S.,.....Associate Professor of Materia
 Medica and Therapeutics and in Charge of Dental Infirmary
 EUGENE ROGER STONE, D.D.S.....Associate Professor of Oral Surgery
 JAMES WALTER BERNHARD, D.D.S.,
 Associate Professor of Crown and Bridge Work
 WALTER LOWELL HAGAN, D.D.S.,
 Associate Professor of Operative Technics
 CHARLES GARDNER SHOEMAKER, D.D.S.,
 Associate Professor of Operative Technics
 DORRELL GHIO DICKERSON, M.D.... Associate Professor of Physiology
 WILLIAM KARL KILLINGER, D.D.S..Associate Professor of Orthodontia
 JOHN WINSLOW TAYLOR, D.D.S.,
 Associate Professor of Prosthetic Technics
 JASPER NEWTON ROBERTS, D.D.S.,
 Instructor in Crown and Bridge Work
 PATRICK V. GALLAGHER, D.D.S.Associate Professor of Oral
 Prophylaxis and Instructor in Dental Infirmary and Pathology
 ROBERT CAMPBELL McCULLOUGH, D.D.S.,...Instructor in Metallurgy
 and Demonstrator in the Prosthetic Laboratory

HENRY CISSEL YOUNG, D.D.S.....Instructor in Prosthetic Technics

CHARLES WALTER RICH, D.D.S.....Instructor in Dental Infirmary

STERLING VERNON MEAD, D.D.S.,

Instructor in Radiography and Demonstrator in Dental Infirmary

CHARLES ALBERT WHITE, D.D.S....Lecturer on Dental Jurisprudence

HENRY MERLE SPILLAN, D.D.S..Instructor in Crown and Bridge Work

WEBB WATSON WYMAN, D.D.S...Instructor in Crown and Bridge Work

JOSEPH ALTSHULER FRIEDMAN, D.D.S.,

Instructor in Prosthetic Technics

PAUL S. HERRING, D.D.S.....Instructor in Dental Infirmary

At the time of the present publication, as the Dental School is being completely re-organized on the basis of the requirements of the Dental Educational Council of America, it is not possible to publish the bulletin of that School.

At the beginning of the next term and year, the instruction of the Dental School will be carried on between 9 a. m. and 5:30 p. m. No night classes will be held or instruction given at night.

LAW SCHOOL

FACULTY

CHARLES HERBERT STOCKTON, LL.D.,	
President of the University (To September 1918)	
WILLIAM MILLER COLLIER, LL.D....	President Elect of the University
MERTON LEROY FERSON, A.M., LL.B.....	Dean and Professor of Law
WALTER COLLINS CLEPHANE, LL.M.....	Professor of Law
EDWIN CHARLES BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.B.....	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....	Professor of Law
WENDELL PHILLIPS STAFFORD, A.M., LL.D.....	Professor of Law
JOHN WILMER LATIMER, LL.B.....	Professor of Law
*ARCHIBALD KING, A.M., LL.B.....	Assistant Professor of Law
WILLIAM CABELL VAN VLECK, A.B., LL.B.,	
Secretary of the Law School and Assistant Professor of Law	
CHARLES SAGER COLLIER, A.B., LL.B.....	Assistant Professor of Law
MERRILL ISAAC SCHNEBLY, A.B., J.D.....	Assistant Professor of Law
LOYD HALL SUTTON, S.B., LL.B.....	Associate Professor of Patent Law
ROBERT SZOLD, A.B., LL.B.....	Instructor in Law
FRED C. O'CONNELL.....	Clerk of the Moot Court

MOOT COURT OF APPEALS

HENRY BROWN FLOYD MACFARLAND.....	Chief Justice
STANTON JUDKINS PEELE, LL.D.....	Associate Justice
BRAINARD WARNER PARKER, LL.B.....	Associate Justice

LIBRARY

EINAR WELLEN DIESERUD.....	Assistant Librarian
HAROLD FITZ-HUGH HANES.....	Assistant Librarian
JOHN HARRY BLOEM.....	Assistant Librarian

GENERAL STATEMENT

History.—The Law School, established in 1865, is the oldest in the city of Washington. Its course of instruction for the degree of Bachelor of Laws originally requiring two years was increased in 1898 to three years. A year of graduate work was added in 1877 leading to the degree of Master of Laws. The curriculum has since been increased by a course of study leading to the degree of Master of Patent Law.

Member of Association of American Law Schools.—The Law School was one of the group of law schools which in 1900 organized the

* On leave of absence. An officer in American Expeditionary Forces in France.

Association of American Law Schools and it has remained a member of the Association since that time. This Association includes forty-eight of the most progressive law schools of the country and is committed to the policy of advancement in legal education. As this school maintains the standards of the Association, work certified by it is given a maximum of credit by other law schools of the country. This enables students who are unable to complete their studies in Washington, to continue them at other institutions with a minimum loss of time and work.

Purpose of Course.—The School aims to give a thorough legal training to students whose education and maturity fit them to pursue serious professional study. Nearly sixty per cent of its students have had college training and their average age is over twenty-five years. A preliminary course in liberal arts is encouraged and the University permits the first year of law work to be counted as the fourth year of college work for the degree of Bachelor of Arts, thus enabling students to obtain both the academic and professional degrees in six years.

Method of Instruction.—The method of instruction followed is designed to instill correct modes of legal study, to train the mind in legal reasoning and to give a thorough grasp of fundamental legal principles. The student studies leading cases—the earlier cases which establish a principle, the later cases which show its qualifications. This study is supplemented by classroom discussion and instruction. Thus while the student is being trained to analyze and to discriminate, he at the same time masters the principles of law, sees the reasons on which they are based, and observes the influence on their development of successive, political, economic and social theories. The method is most practical. The student has always before him actual problems and their solution by the ablest judges of England and America. He begins under his teacher's guidance the work he must do when he enters practice. In no other way can the future lawyer acquire such power to solve the new problems arising from the rapidly changing social and economic conditions of life.

"The only way to clarify and simplify our law as a whole is to reach the lawyer in the making and mold his habits of thought by adequate instruction and training so that when he comes to the Bar he will have learned to think not merely in terms of law but in terms of jurisprudence. The living principle of the case system of instruction in our law schools is that the student is required by a truly scientific method of induction to extract the principle from the decision and to continually state and restate for himself a system of law evolved from its history. He is thus preparing not merely to accept formally dogmatic statements of principles but to receive and assimilate and make his own the systematic thought and learning of the world in the science of jurisprudence. With

a Bar subjected generally to that process of instruction, the more general systematic study of jurisprudence would follow naturally and inevitably, and the influence of that study would be universal; and from that condition would evolve naturally the systematic restatement of our law, by men equal to that great work."*

This inductive case system is the antithesis of the lecture and illustrative case method which is often mistaken for it. The case method is now used in over eighty per cent of the schools in the Association of American Law Schools.

The substantive law is taught almost wholly by professional teachers employing the case method and giving all their time to the school; the practice courses are conducted by lawyers and judges in active practice.

Scope of Course.—The course of study is not local in its scope but constitutes a thorough preparation for the practice of law in any English speaking jurisdiction. It satisfies the professional study required for admission to the Bar examinations of the District of Columbia and all other jurisdictions of the United States. The school has conferred over 2,500 degrees, and its graduates are now practicing in every state of the Union.

ADVANTAGES OF WASHINGTON FOR THE STUDY OF LAW

The city of Washington has unusual attractions for students and particularly for students of law. It lies between the North and the South. It is a residential city of rare beauty, and its population is drawn from all over the United States. The library facilities of the city, both general and legal, are unexcelled. It is unique in the extent of its legal machinery. It is the seat of Congress, the Supreme Court of the United States, the Department of Justice, the United States Court of Claims, the United States Court of Customs Appeals, and of the District of Columbia Court of Appeals, Supreme Court and Municipal Courts, which exercise the dual function of state and federal courts. By attending the sessions of these various bodies students can familiarize themselves with all branches of legal procedure and keep in touch with current legal thought while pursuing their studies.

LOCATION

The Law School occupies the entire fifth and sixth floors of the New Masonic Temple, corner of New York Avenue, Thirteenth and H Streets N. W., and is easily accessible from all parts of the city. The quarters are well equipped with commodious class rooms, moot court rooms, offices, the law library, and a students room.

* From address of Hon. Elihu Root, President of the American Bar Association, August, 1916.

LIBRARY

A well-equipped working library comprising 7300 volumes, is open to students from 8.30 a.m. to 10 p.m. Competent librarians are in charge and will give students assistance in the use of books.

The library contains the complete decisions of the highest courts of forty-six states and the District of Columbia, the complete reports of the United States Supreme Court and the other federal courts, the complete National Reporter Reports, the Century, Decennial, Key number and United States Supreme Court Digests, the various encyclopedias of law, the Lawyers Reports Annotated, the American Decisions, American Reports and American State Reports, the English Common Law and Chancery Reports, the English Reprint, the English Law Reports and Law Journal Reports since 1865 and about 800 standard text books and legal periodicals.

In addition to these facilities the students have free access to the Congressional Library and other public libraries.

ACADEMIC YEAR AND REGISTRATION

The academic year 1918-19 begins Wednesday, September 25, closes Wednesday, June 11. The year is divided into two half-years, the second beginning February 3. The course is so arranged that a student may enter the second half-year and be graduated three years from that time, receiving his degree at the Winter Convocation held on or about February 22, of each year.

Students are urged to register at the beginning of the half-year. Those who register later than three weeks after the opening of the half-year, will be restricted to registration for such work only as in the opinion of the faculty they can successfully carry.

HOURS OF INSTRUCTION

Classes meet in the afternoon from 5 to 6.40. This enables students in Government or other employment to attend the law school during the day and to have their evenings for study. Classes in a few subjects are held in the morning from 7.50 to 8.40, and may be elected by students of the second and third years in place of subjects of the regular periods.

ADMISSION

Both men and women are admitted to the Law School.

I. *For the Degree of Bachelor of Laws.*—The requirements for admission to the course leading to the degree of Bachelor of Laws may be satisfied in either of the following ways:

a. By the presentation of a diploma or certificate of graduation from the classical, scientific or equivalent course of a college or university.

b. By the presentation of certificates from a college or university, or from an approved high school or preparatory school, showing the successful completion of at least fifteen high school units, which are broadly equivalent to a four year high school course. A unit represents approximately one year of study of a major subject in a high school. Applicants qualifying for admission under this requirement must be at least eighteen years of age. Those presenting high school credits only should have them certified on the blank forms which they may obtain from the Secretary of the Law School.

The fifteen units may be made up from the following subjects: (The Roman numerals indicate the year of study in the subject).

<i>Subjects</i>	<i>Units</i>
English I, II, III, IV.....	4
Latin, Elementary, I, II.....	2
Advanced, III, IV.....	2
Greek, Elementary, I, II.....	2
Advanced, III.....	1
French, Elementary, I, II.....	2
Advanced, III, IV.....	2
German, Elementary, I, II.....	2
Advanced, III, IV.....	2
Spanish, Elementary, I, II.....	2
History, Ancient.....	1
Mediaeval and Modern European.....	1
English.....	1
American.....	1
Mathematics	
Algebra, Elementary and Intermediate.....	1½
Advanced.....	½
Geometry, Plane.....	1
Solid.....	½
Plane Trigonometry.....	½
Science	
Physics.....	1
Chemistry.....	1
Physiography.....	1
Biology.....	1
Botany.....	½
Zoology.....	½
Political Economy.....	½
Civil Government.....	½
Commercial High School Subjects	
Accounting and Finance.....	1
Bookkeeping.....	1
Business Organization.....	1

<i>Subjects</i>	<i>Units</i>
Commercial Law.....	1
Commercial History.....	$\frac{1}{2}$
Commercial Geography.....	$\frac{1}{2}$
Government and Industrial Problems.....	1

II *For the Degree of Master of Laws or Master of Patent Law.*—Candidates for these degrees must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools.

III. *As Special Students.*—Persons who can not qualify as candidates for a degree but are over twenty-one years of age and have had such educational training and practical experience as should enable them to pursue satisfactorily the study of law, may be admitted as special students by consent of the Dean.

ADVANCED STANDING

Students from other law schools which substantially comply with the requirements of the Association of American Law Schools will receive equivalent credit, not exceeding two years' work. Such students must have been qualified to enter this school when they began the study of law. The right is reserved to refuse such credit, in whole or part, save conditionally or after examination, and credit given may be withdrawn for poor work.

Applicants of whom examination may be required, can take the regular examinations or those held at the beginning of each academic year. (See examinations.)

No credit will be given for studies pursued in a college or high school before entering on the regular study of law, or in a law office.

SUBJECTS OF INSTRUCTION 1917-18

The course of instruction extends through a period of at least three years. For the degree of Bachelor of Laws twelve hours class work a week are necessary to complete the course in three years. Ten hours a week for a year in subjects not counted towards the Bachelor's degree, are required for the degree of Master of Laws or Master of Patent Law.

The subjects marked with an asterisk are prescribed for the degree of Bachelor of Laws. The student may elect the remainder of his subjects. Third-year students may elect subjects of the second year not previously studied. The selection of the subjects must be made in all cases within ten days after the beginning of the half-year.

Students devoting their whole time to the study of law may, with the permission of the Dean, take work not exceeding fifteen hours a

week. Excess credits may be applied toward the degree of Master of Laws or Master of Patent Law. Students with substantial outside employment may not register for more than twelve hours and are urged to carry less, and to devote more than three years to the course.

FIRST YEAR SUBJECTS

*COMMON LAW ACTIONS. *One hour first half year.* Introductory to study of law. Substantive and adjective law; courts; steps in an action; original writ; scope of formed actions; growth of new actions; development of law. *Sunderland's Cases on Common Law Pleading.* MR. VAN VLECK.

*CONTRACTS. *Three hours.* Simple contracts: offer, duration and termination thereof; acceptance; consideration; contracts under seal, including thereunder formalities of execution, delivery and consideration; parties affected by contracts: beneficiaries; assignees; joint obligors and obligees; performance of contracts: express and implied conditions; impossibility. *Williston's Cases on Contracts.* MR. FERSON.

CRIMINAL LAW AND PROCEDURE. *Three hours second half year.* Sources of the criminal law; intent and act; attempts; insanity as a defense; historical development of crimes and statutory changes. The arrest; bail; the grand jury; the indictment; trial; pleas; modification of early practice, and statutory changes. *Mikell's Cases on Criminal Law and Procedure.* MR. EARNEST.

*EQUITY I. *Two hours second half year.* The nature and underlying principles of equity; specific performance of affirmative and negative contracts; relief for and against third persons under contracts, especially under contracts relating to the use of land. *Ames' Cases on Equity Jurisdiction, Volume I.* MR. SCHNEBLY.

*PERSONAL PROPERTY. *Three hours first half year.* Distinction between personal and real property; nature of and rights based upon possession; some methods of acquiring title to chattels; liens and pledges; conversion. *Warren's Cases on Property.* MR. VAN VLECK.

PRINCIPLES OF LEGAL LIABILITY. *Three hours first half year.* Nature of an act; causation of injury; proximity or remoteness of injury as affecting tort or criminal liability of the actor; effect of interposition of other causes including natural forces and acts of animals and human beings; excuses for acts causing injury including duty, public authority, defence of person and property and consent of injured person. *Beale's Cases on Legal Liability.* MR. COLLIER.

*REAL PROPERTY I. *Two hours second half year.* Feudal tenure and incidents; estates in land; co-tenancy; future interests; seisin; creating and transferring estates; uses; incidents of ownership. *Warren's Cases on Property.* MR. SCHNEBLY.

* Prescribed Subjects.

*TORTS. *Two hours.* Negligence; duty of care of occupant of land toward those coming on it; trespass to the person, to real and personal property; contributory negligence; liability for fire or explosives; liability of owner of animals; deceit; libel and slander; malicious prosecution; unfair competition; strikes and lock-outs. *Pound's Cases on Torts.* MR. COLLIER.

SECOND YEAR SUBJECTS

AGENCY. *Three hours first half year.* Requisites for creation of the agency relation; power of the agent to subject the principal to tort, criminal and contract liability to third persons; responsibility of the agent to third persons; liabilities in case of undisclosed principal; duties of principal and agent inter se; delegation of powers by the agent; ratification; termination of agency. *Wambaugh's Cases on Agency.* MR. FERSON.

*BILLS AND NOTES. *Three hours second half year.* Form and essential requisites of negotiable instruments; delivery; indorsement; liability of maker, acceptor, drawer, indorser, and of person transferring by delivery. *Colson's Huffcut's Cases on Negotiable Instruments.* MR. FERSON.

*COMMON LAW PLEADING. *Two hours first half year.* The declaration, necessary allegations, separate counts, joinder of causes; pleas, the common traverse, the special traverse, the general issues, confession and avoidance, estoppel, abatement; replications; amendment, aider and replender. *Stephen on Pleading.* MR. CLEPHANE.

DOMESTIC RELATIONS. *Two hours second half year.* Marriage, divorce and separation; personal and property rights and liabilities of husband and wife; parent and child; infancy. *Woodruff's Cases on Domestic Relations (2d ed.).* MR. VAN VLECK.

*EQUITY II. *Two hours first half year.* A continuation of the study of the rules regulating specific performance of contracts including the doctrine of equitable conversion, and the more important defenses to a specific performance such as the statute of frauds, fraud, hardship, misrepresentation and concealment. *Ames' Cases on Equity Jurisdiction, Volume I.* MR. SCHNEBLY.

EQUITY III. *Two hours second half year.* Bills of interpleader; bills of peace; bills Quia Timet; cloud on title; reformation and rescission; mistake of law and mistake of fact. *Ames' Cases on Equity Jurisdiction, Volume II.* JUSTICE STAFFORD.

*EVIDENCE. *Three hours first half year.* Judicial notice; burden of proof and presumptions; admissions and confessions; character; opinion evidence; the hearsay rule and its exceptions; the privileges and dis-

*Prescribed Subjects.

qualifications of witnesses; the examination of witnesses; writings. *McKelvey on Evidence, Thayer's Cases on Evidence.* MR. PETER.

QUASI-CONTRACTS. *Two hours second half year.* Obligations imposed by law which are enforceable by action of assumpsit. *Thurston's Cases on Quasi-Contracts.* MR. VAN VLECK.

*REAL PROPERTY II. *Two hours.* Rights in another's land; profits, easements, licenses, covenants running with the land; acquisition of Real Estate Inter Vivos; accretion, adverse possession, prescription, conveyancing, covenants for title, estoppel by deed: dedication. *Warren's Cases on Property and Gray's Cases on Property (2d Ed.) Volume III.* MR. SCHNEBLY.

SALES. *Three hours second half year.* Subject matter of a sale of personal property; the passing of title as affected by the goods being specified or unspecified, the contract being executed or executory, the use of documents of title, and shipments c.o.d.; effect of fraud and of retention of possession; rights and remedies of the seller; rights and remedies of the buyer. *Williston's Cases on Sales (2d ed.).* MR. COLLIER.

THIRD YEAR SUBJECTS

BANKRUPTCY. *Two hours second half year.* History of the law; jurisdiction and procedure in Courts of Bankruptcy and before Referees; effect upon civil litigation of bankruptcy proceedings; voidable preferences; jurisdiction over appeals, etc. MR. BRANDENBURG.

CONFLICT OF LAWS. *Two hours.* Jurisdiction; of law over persons and things; of courts, in rem, in personam, quasi in rem, and for divorce; creation and enforcement of foreign rights; limitations and enforcement of such rights; remedies, including rights of action and procedure; particular classes of rights, including personal rights, property rights, tort rights, contract rights; administration of estates. *Lorenzen's Cases on Conflict of Laws.* MR. VAN VLECK.

CONSTITUTIONAL LAW. *Two hours.* Legislative, executive and judicial powers; the relation of nation and states; District of Columbia and territories; the contract clause; ex post facto laws; fourteenth amendment; commerce clause, etc. *Wambaugh's Cases on Constitutional Law.* MR. COLLIER.

*CORPORATIONS. *Two hours.* The course aims to deal with all general principles of corporation law including the corporation's relations with the state, its promoters, its stockholders, and its creditors and the rights and obligations arising therefrom. *Warren's Cases on Corporations (2d ed.).* MR. SCHNEBLY.

EQUITY PLEADING AND PRACTICE. *One hour second half year.* Parties; process; bills; demurrers; answers; pleas; disclaimers; cross-bills; repli-

* Prescribed Subjects.

cations; amendments; practice; injunctions; receivers. *Jones on Equity Pleading and Practice.* MR. CLEPHANE.

FEDERAL PROCEDURE. *Two hours first half year.* Source of Federal jurisdiction; the law as administered by Federal Courts; jurisdiction and procedure; appellate jurisdiction of Circuit Court of Appeals and Supreme Court of the United States; practice in Court of Claims, and other Federal Courts. MR. BRANDENBURG.

LEGAL BIBLIOGRAPHY AND BRIEF MAKING. *One hour first half year.* Where and how to find the law; how to use decisions and statutes; trial brief; appeal brief. JUDGE LATIMER.

LEGAL TACTICS AND ETHICS. *One hour first half year.* Duties of attorneys; ethics; office practice; common law practice; summary judgments; attachments; examination of witnesses; appellate practice; extraordinary legal remedies. MR. CLEPHANE.

*MOOT COURT. *Two hours.* Pleadings; trials before judge; trials before jury; extraordinary remedies; appellate work. There are three nisi prius courts, Equity, Circuit, and Criminal, and a Court of Appeals. The proceedings are conducted as in a regular court. Statements of fact are furnished the students who must determine the court in which to sue, frame their pleadings, and conduct the cases to a conclusion in accordance with the rules of actual practice. MESSRS. CLEPHANE, EARNEST AND JUDGE LATIMER.

ORGANIZATION AND MANAGEMENT OF CORPORATIONS. *One hour second half year.* Promotion; selecting domicile; capitalization; charter; by-laws; meetings; stockholders; directors; officers; stock; bonds; voting trusts. *Clephane on the Organization and Management of Corporations.* MR. CLEPHANE.

PARTNERSHIP. *Two hours first half year.* Formation; title to partnership property; partnership liability; rights and duties of partners inter se; rights and remedies of creditors. *Ames' Case on Partnership.* JUSTICE STAFFORD.

PATENT LAW (SUBSTANTIVE) AND PATENT OFFICE PRACTICE. *Two hours.* Substantive Patent Law: Subjects of patents; invention; anticipation; statutory bars; utility; parties; reissues; disclaimers; extent of monopoly; state and federal regulation; transfers of title; licenses; construing claims; infringement. Patent Office Practice; Attorneys; application papers; examinations; amendments; division; double patenting; interferences; interference practice; appeals; abandonment; renewals; public use proceedings; issue. MR. SUTTON.

PATENT LAW PRACTICE. *Second half year.* Trial of patent law cases in moot court. MESSRS. CLEPHANE and SUTTON.

PREPARATION OF LEGAL INSTRUMENTS. *One hour second half year.* Contracts; deeds; acknowledgment and proof of deeds; mortgages and

* Prescribed Subjects.

deeds of trust; leases; bills of sale; chattel mortgages; release of mortgages or deeds of trust; powers of attorney; assignments; wills. JUDGE LATIMER.

PUBLIC SERVICE COMPANIES AND THE INTERSTATE COMMERCE ACT. *Two hours.* An introductory consideration of the rights, liabilities and duties of public service companies in general, followed by a more minute study of the duties and obligations of carriers including those of interstate carriers as regulated by the Interstate Commerce Act. *Beale's Cases on Carriers (2d. Ed.); Wyman's Cases on Public Service Companies (2d. Ed.); Frankfurter's Cases Under the Interstate Commerce Act.* Mr. SZOLD.

TRUSTS. *Two hours.* The nature of a trust as distinguished from debt, bailment, equitable charge and executorship; the requisites for the creation of a trust including trustee, cestui que trust, object, consideration and the effect of the Statute of Frauds; the nature of the cestui's interest; the transfer of trust property by act of the parties, by death, by marriage, by insolvency and acts of creditors; the duties of the trustee in the administration of his trust. Resulting and constructive trusts. *Ames' Cases on Trusts.* Mr. FERSON.

WILLS AND ADMINISTRATION. *One hour, first half year.* History of wills; the right to make a will; what is disposable under a will; form, execution and attestation; revocation; who is entitled to administer upon an estate; distribution of an intestate's personalty; descent of realty; probate; letters testamentary and of administration; duties of executors and administrators. Mr. PETER.

INTERNATIONAL LAW. *Two hours.* A course on International Law and Diplomacy offered by the Faculty of Arts and Sciences. President Stockton, Dr. Wm. M. Collier, Assistant Professor Hill.

SUMMER SESSION

A limited number of subjects are offered at the Summer Session. The purpose of this session is to lighten or supplement the work of the regular session by enabling students to take subjects usually taken in the regular session. These subjects may also be availed of to shorten the period of study for a degree. The subjects offered in the summer session of 1917 (June 25 to August 4) were Personal Property, Principles of Legal Liability, Insurance, Mortgages, Municipal Corporations. See announcement of the summer session, 1918 (June 24 to August 3).

LEGAL AID SOCIETY

The Legal Aid Society of the Law School is a student organization which gives legal advice without charge to persons financially unable to employ a lawyer. The members secure valuable practical experience

which supplements their work in Moot Court. Membership is restricted to senior and post-graduate students of high scholarship. The work of the Society is supervised by a member of the faculty and an alumnus in active practice.

PUBLIC SPEAKING AND DEBATING

Excellent facilities for training in public speaking and parliamentary law are afforded by the Columbian Debating Society, which has been organized in the Law School, and meets weekly for debate. Membership in this Society is optional, but its work is encouraged by the Faculty, and students are advised to take part in its exercises.

Intercollegiate debates are also held. Membership on the teams which represent the University in these contests must be won in preliminary contests held for such purpose. These debates are conducted under the supervision of a committee of the University Faculty.

ATTENDANCE, RECITATIONS, EXAMINATIONS, GRADES AND ELIMINATION OF STUDENTS

Attendance and Recitations.—No student except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the classes and have done all the work required in the course of instruction upon that subject. A student who is absent over ten per cent of the class hours in any subject will be denied credit unless his absences are excused by the Dean.

Regular Examinations.—Written examinations are held at the close of the first half-year in subjects which are then completed and at the close of the year in all other subjects. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean.

Grades.—At all examinations the grading of students will be indicated by the letters A, B, C, D, E, and F, representing respectively Excellent, Good, Satisfactory, Fair, Conditioned and Failed. A student receiving the grade of F (failed) in any subject will be required to repeat the class work. A student receiving the grade of E (conditioned) in any subject will be required to repeat the class work unless he pass the next regular examination for the removal of conditions with a grade of at least C.

Examinations for the Removal of Conditions.—Regular examinations for the removal of conditions are held during the first week of each academic year. A special examination for the removal of conditions is held at the end of each academic year for the benefit of candidates for the Bachelor's degree who have been conditioned in not more than four hours during the first half of their last year. Application for permission to take these examinations must be made in writing to the

Secretary of the Law School not later than three days before the date for which the examination is scheduled.

Elimination of Students.—Students, regular or special, whose work is unsatisfactory are required to withdraw from the school. The instructors of the first year class are a committee to examine the students' records, with power to warn, to place on probation, and to refuse reregistration to any student whose work is deemed unsatisfactory. This committee examines the records of all students immediately after the mid-year examinations and again after the final examinations.

DEGREES

1. *Bachelor of Laws.*—The degree of Bachelor of Laws will be conferred upon regular students who have studied law for a period of at least three years and passed satisfactory examinations with an average grade of at least "C" on required and elective subjects aggregating thirty-six year hours, and whose attendance and conduct have been satisfactory to the Faculty.

The degree of Bachelor of Laws with distinction will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

2. *Master of Laws.*—The degree of Master of Laws will be conferred upon students who have completed the work in subjects not counted for the Bachelor of Laws degree covering a minimum of ten hours a week with a grade of C or better and whose attendance and conduct have been satisfactory to the Faculty. The subject of International Law offered by the Faculty of Arts and Sciences may be counted towards this degree. The degree will not be conferred until one year after the receipt of the degree of Bachelor of Laws.

3. *Master of Patent Law.*—Students who have qualified for the degree of Master of Laws may elect instead the degree of Master of Patent Law provided that they have included in their course the Patent Law subjects and Federal Procedure. This degree will not be conferred until one year after receipt of the degree of Bachelor of Laws.

Candidates for degrees who have been absent from school for two successive years shall be entitled to continue the course only on such terms as the Faculty may prescribe at the time of reentering.

Combination Six-years Course for Degrees of Bachelor of Arts and Bachelor of Laws

The University permits one year of professional work in the Law School to be counted towards an academic degree. The degree of Bachelor of Arts will be conferred on students who have completed three years of college work (45 units) including one of the four groups of subjects prescribed by Columbian College of the University, and the first year in the Law School; the degree of Bachelor of Laws on completing the whole six years of the combination course.

PRIZES

The John B. Larner Gold Medal.—A gold medal donated by Mr. John Bell Larner, Chairman of the Board of Trustees of the University, is awarded annually to that member of the graduating class who shall have attained the highest average grade in the entire course for the degree of Bachelor of Laws. Awarded 1916-17 to David Hoagland Cannon.

The American Law Book Company Prize. A complete set of "Cyc" with its annual annotations to date, donated by The American Law Book Company, is awarded annually to that member of the graduating class who shall have attained the highest average grade in the entire course for the degree of Bachelor of Laws. The recipient of this prize is also eligible to compete for one of three Corpus Juris scholarships, each of a value of \$500, for one year's post graduate work in law, offered by The American Law Book Company. Awarded 1916-17 to David Hoagland Cannon.

Herrick Prize.—A prize of twenty-five dollars cash, donated by Samuel Herrick, Esq., is awarded annually to that member of the graduating class excepting the winner of the gold medal, who shall have attained the highest average grade in the entire work of the third year. Awarded 1916-17 to Harry S. Taylor.

Blackstone Institute Prize.—A set of Modern American Law, donated by the Blackstone Institute, is awarded annually to that member of the graduating class excepting the winners of The American Law Book Company and Herrick Prizes, who shall have attained the highest average grade in the entire work of the third year. Awarded 1916-17 to Harry S. Taylor.

The Ordranax Prize Scholarship.—A prize scholarship, known as "The Ordranax Prize Scholarship," is awarded annually to that member of the second year class taking the regular course who shall have attained the highest average grade in the work of the second year. The recipient of this prize will be entitled to receive credit for tuition fees to the extent of ten hours work in his third year; library and diploma fees will remain payable. The award of this scholarship is purely personal and will not be commuted to a cash payment. The recipient of the scholarship must make use of it during the session next succeeding its award; otherwise it will be awarded to the person having the next highest grade. Awarded 1916-17 to Charles Orr Marshall.

Phi Delta Phi Prize.—The Marshall Chapter of Phi Delta Phi Fraternity, which is the local chapter, offers a prize of twenty-five dollars cash, to be awarded annually to that member of the first year class taking the regular course who shall attain the highest average grade in the entire work of the year. Awarded in 1916-17 to Bessie W. Newsom.

Ellsworth Prize.—A prize of twenty-five dollars in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for

the best work done by a student in the subject of Patent Law Practice. Awarded in 1916-17 to Charles Orr Marshall.

John Byrne and Company Prize.—A prize offered by John Byrne and Company of Washington, D. C., of four volumes of their Legal Classics is awarded each year to the student attaining the highest grade in Real Property III. Awarded in 1916-17 to Harry S. Taylor.

FEES

The following schedule of fees applies to all students who have matriculated in and been in attendance in the Law School prior to September 1, 1918.

1. Matriculation fee (payable once).....\$ 5
2. Library fee (payable annually one-half at the beginning of each half year)..... 3
3. Tuition fee per annum for each hour taken per week.... 10
4. Fee for graduation..... 10

The following schedule of fees applies to all students entering the Law School for the first time after September 1, 1918.

1. Registration fee (payable once upon first registration in the Law School).....\$ 5
2. Tuition fee per annum for each hour taken per week.... 12
3. Fee for graduation..... 10

No registration will be accepted for less than a half-year, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during the half-year will be granted only on recommendation of the Dean and the approval of the President.*

PAYMENT OF FEES

Matriculation and library fees are due in advance. Tuition may be paid in eight monthly installments in advance, but will not be apportioned for part of a month. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. Fees are payable at the office of the Treasurer of the University, 2101 G Street, or of the Secretary of the Law School.

STUDENTS' EMPLOYMENT BUREAU

The School conducts an Employment Bureau to assist students in finding work to aid in their support. Many out-of-town students take the United States Civil Service examinations in their various states and secure positions in the Government departments in Washington, where the hours of employment enable them to pursue the law course in the afternoon. Information concerning these examinations may be secured from the Civil Service Commission at Washington.

There are also opportunities for private employment which will help pay expenses, but the applicant must be on hand to take advantage of them. Prospective students should have the means of support for at least a half year to give them time to secure positions. The Bureau will assist prospective students but it is usually impossible to give definite aid until they come to the city.

For catalogues, application blanks and further information address
THE SECRETARY OF THE LAW SCHOOL,
George Washington University

PART III

ASSOCIATED COLLEGES

NATIONAL COLLEGE OF PHARMACY

COLLEGE OF VETERINARY MEDICINE

Institutions in the District of Columbia organized as corporations under the Charter of the University, having separate financial foundations but educationally forming a part of the system of the University.

PART III
ASSOCIATED CHURCHES
METHODIST CHURCH OF THE WORLD
CONFERENCE OF THE UNITED STATES

Published by the Board of Christian Education
of the Methodist Episcopal Church, South,
at the Annual Conference, 1908, at New York.

NATIONAL COLLEGE OF PHARMACY

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Assistant to the Professor of Analytical Chemistry

CALENDAR

1918

- September 11, *Wednesday*—Admission Examination, 1.00 p.m., Lecture Room of the College.
 September 18, *Wednesday*—Forty-seventh Annual Session begins.
 November 28, *Thursday*—Thanksgiving Day, a holiday.

Recess from December 20, 1919 to January 3, 1919, both dates inclusive.

1919

- January 20–25, Examinations, close of first semester.
 (inclusive)
 January 27, *Monday*—Second semester begins.
 February 22, *Saturday*—A holiday.
 May 5–10, Examinations, close of second semester.
 (inclusive)
 June 4 *Wednesday*—Commencement.

GENERAL STATEMENT

The National College of Pharmacy, the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, chartered under the provisions of an act of Congress in 1872, opened its doors to students November 11 of that year. In February, 1906, it became a member of the educational system of George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy.

The work of the College embraces courses in chemistry, botany, physiology, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The College building is centrally located on I street northwest between Eighth and Ninth streets. It is easily reached by the principal street car lines of the city.

Preliminary Education and Examination

The College requires of its matriculants a knowledge of the branches usually taught in the public schools of Washington, D. C., to the extent of *four years in the high schools or its equivalent*, and they must be at least *seventeen years of age*. Evidence of this may be shown by certificates from reputable teachers or by the results of an examination to be held at the College, at one o'clock p.m., *WEDNESDAY, September 11, 1918*

SPECIAL COURSES

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

SEMESTERS

The Annual Course is divided into two semesters, each of sixteen weeks. Fifteen weeks of each semester is given over to lecture, laboratory, and other instruction, and the sixteenth week is devoted to final examinations in the subject matter covered in each course during that semester.

THE DEGREE

The degree conferred is *Doctor of Pharmacy*.

QUALIFICATIONS FOR THE DEGREE

1. The student shall have attended three annual courses in Pharmacy; three annual courses in Materia Medica, Botany, Physiology, and Toxicology; three annual courses in General Chemistry and Physics; three annual courses in Analytical Chemistry; two annual courses in Microscopy; one annual course in Mercantile Pharmacy, and one-half annual course in Pharmaceutical Jurisprudence.
2. He shall have passed a satisfactory examination in each of the branches taught.
3. He must be recommended by the Board of Examiners.

MATERIA MEDICA, BOTANY, PHYSIOLOGY AND TOXICOLOGY

Freshman Course

Introduction to the study of Botany, Evolution, Properties of Living Organisms, Growth of Plants, Internal Structure and Physiology of plants will receive proper attention, followed by a description of the Natural and Artificial Systems of Botany.

Following will be a course of instruction in Animal Physiology, to include Body Tissues, Bone, Fibre, Cartilage, Muscle, Epithelium, Serous Tissue, Nerve Tissue, Blood and the Circulation.

Junior Course

Causes of disease, Trauma, Poisons introduced from without, the Bacteria, Immunity.

General Principles of Therapeutics, Rules for Dosage, Standardization of Drugs, to be followed in their regular order, the study of Drugs, classified according to their general or local effects.

Senior Course

General review of the Junior year work and continuation of the study of drugs, to include the coal tar group, toxins and anti-toxins vaccines, Bacterins. Use of drugs hypodermically. This course to conclude with a special course of instruction in Toxicology.

PHARMACY

Freshman Course

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination, granulation, comminution, solution, sterilization, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

Junior Course

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœia preparations, and such modifications as adapt them to special uses.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, following by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury; antimony, arsenic, bismuth, and gold.

Senior Course

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; glucosides and alkaloids, volatile oils and animal products used in pharmacy, vegetable oils, soaps, and products from resins.

ANALYTICAL CHEMISTRY

The instruction in this Department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this Department a large, well-equipped laboratory is provided with all the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the test of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

GENERAL CHEMISTRY AND PHYSICS

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

MICROSCOPY

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distinguished from another as well as to the detection and identification of the most common adulterants used.

MERCANTILE PHARMACY

Attendance upon this course, which deals with business methods, accounting, and commercial law, is required throughout the entire Junior year.

PHARMACEUTICAL JURISPRUDENCE

In this course, given one-half the Senior year, the laws peculiarly applicable to the pharmacist, are dealt with.

FEES

Matriculation, payable but once.....	\$5.00
Tickets for the full year's instruction, Freshman.....	90.00
Tickets for the full year's instruction, Junior.....	100.00

Tickets for the full year's instruction, Senior.....	\$100.00
Single tickets, Pharmacy, each year.....	30.00
Single tickets, General Chemistry and Physics, each year....	20.00
Single tickets, Analytical Chemistry, each year.....	25.00
Single tickets, Physiology and Botany, Freshman Course.....	20.00
Single tickets, Botany and Materia Medica, Junior Course..	20.00
Single tickets, Materia Medica and Toxicology, Senior Course	20.00
Single tickets, Microscopy, each year.....	20.00
Single tickets, Mercantile Pharmacy, one year.....	20.00
Single tickets, Pharmaceutical Jurisprudence, one-half year..	10.00
Diploma Fee.....	10.00

For further information consult the Dean, DR. HENRY E. KALUSOWSKI,
808 I Street.

COLLEGE OF VETERINARY MEDICINE

BOARD OF TRUSTEES

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 Professor of Theory and Practice of Veterinary Medicine
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 TUNIS HICKS, D.V.M.....Assistant Professor of Veterinary Anatomy
 HENRY IGNATIUS QUINN, LL.M., Lecturer on Veterinary Jurisprudence
 CHAUNCEY MERLE GRUBB, D.V.M.,
 Assistant Professor of Dairy Inspection, Hygiene and Obstetrics
 HARRY ALOYSIUS LOCHBOEHLER, D.V.M.,
 Assistant Professor of Materia Medica
 WILLIAM HENRY O'HARA, D.V.M.....Instructor in Physiology
 CHARLES DAVID SKIPPON, D.V.M.,
 Instructor in Horseshoeing and Dentistry
 CARL SNYDER, Phar.G.,
 Instructor in Pharmacy, Botany and Toxicology
 HARRY THOMAS CLAYTON, D.V.M.....Instructor in Anatomy
 JESSE HAYES, D.V.M.....Instructor in Meat Inspection
 CHARLES LOCKWOOD, D.V.S.....Assistant in Surgery
 FREDERICK WILLIAM GRENFELL, M.R.C.V.S.,
 Assistant in Theory and Practice of Veterinary Medicine

REQUIREMENTS FOR ADMISSION

In accordance with the regulations of the Bureau of Animal Industry, Department of Agriculture, regarding requirements for admission to accredited veterinary colleges, beginning with the session 1916-1917, the requirements for admission to the College of Veterinary Medicine, George Washington University will be as follows:

An applicant having a diploma from a recognized college or a normal or high school, or a first-grade teacher's certificate, will be admitted without examination.

Applicants not having the above qualifications will be required to submit to an examination equivalent to the first grade civil service examination as shown in the Manual of Examinations published by the United States Civil Service Commission, Washington, D. C. This examination will comprise tests in the following subjects:

Spelling: Twenty words of more than average difficulty to be dictated by the examiner. All words should be commenced with capital letters. The examiner pronounces each word and gives definition of same.

Arithmetic: Fundamental rules, fractions, percentage, interest, discount, analysis, and statement of simple accounts. In solving the problems all the figures and mathematical signs necessary for the solution of each problem will be given.

Penmanship: The rating on penmanship will be determined by legibility, rapidity, neatness, and general appearance, and by correctness and uniformity in the formation of words, letters, and punctuation marks in the exercises of the fourth subject—report writing.

Letter Writing. Test in writing a letter of about 150 words on one or two subjects. This exercise is designed chiefly to test the competitor's skill in simple English composition. In writing the letter its errors in form and address, in spelling, capitalization, punctuation, syntax and style, and its adherence to the subject will be considered.

Copying and Correcting Manuscript: Test in making a smooth and corrected copy of a draft of manuscript which includes erasures, misspelled words, errors in syntax, etc.

Geography and Civil Government of the United States: Test in geographical boundaries of the various states, names and locations of rivers and large bodies of water and of various cities of the United States. General questions on civil government of the United States, the constitution, and names of leading statesmen.

Applicants for admission who have successfully passed a first grade civil service examination conducted by the United States Civil Service Commission, in which all of the subjects outlined above were covered, will, on satisfactory proof to that effect, be admitted without further examination.

Applicants who have successfully passed a first grade civil service examination in which any of the subjects outlined above were not included will be required to submit to examination only in such subjects

as were not included in that examination. For example, applicants who have successfully passed the Stenographer or Typewriter examination will be required to submit to examination only in the subjects of Spelling, and Geography and Civil Government of the United States.

ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students of other accredited veterinary schools may be admitted to this school as follows:

Those qualified to enter the second year of such a school may be admitted to the second year of this school, those qualified to enter the third year of such a school to the third year of this school; those qualified to enter the fourth year of such a school to the fourth year of this school; provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years in this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

EVIDENCE OF ATTENDANCE

At the end of the college year each student will receive a written statement giving the length of time spent in each study during the session and the grade received therein, provided all financial requirements of the college have been complied with. A similar statement will be demanded of students of other veterinary colleges when application is made for entry with advanced standing in this college.

ADVANCED STANDING

Advanced standing will be given for degrees in Medicine, Dentistry, or Veterinary Medicine.

Students holding degrees in Arts, Science, Philosophy, or Agriculture who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this college, may upon satisfactory evidence of their proficiency be credited with such studies; provided, however, that such students shall devote three years' study in veterinary medicine, the last year of which is passed in this College.

SPECIAL STUDENTS

Students, approved by the Dean, not candidates for the degree of Doctor of Veterinary Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree of Doctor of Veterinary Medicine. Nor can such students enter upon the regular veterinary course without complying with all the regular requirements for admission.

CLASSIFICATION OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz., first, second, third and fourth year. Students cannot advance to a higher class with more than one major and one minor condition. Students failing in any subject or subjects may be permitted at the next examination period a re-examination in the subjects in which they fail. The Faculty may dismiss any student from the College, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of veterinary medicine.

ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Anatomy	Anatomy	Theory and	Theory and
Histology	Physiological and	Practice	Practice
Embryology	Laboratory	Bacteriology	Small Animal
Chemistry and	Chemistry	Pathology and	Practice
Physics	Pharmacy	Laboratory	Surgery and
Botany and Tox-	Physiology	Diagnosis	Restraint
icology	Hygiene	Surgery and	Therapeutics
Zoology	Breeds and	Restraint	Obstetrics
Horseshoeing	Breeding	Soundness and	Veterinary
Dentistry	Dairy Inspection	Lameness	Jurispru-
	Feeds and Feed-	Clinics	dence
	ing		Parasitology
	Materia Medica		Control of
	Clinics		Infective
			Diseases
			Meat Inspec-
			tion and P.
			M. Exami-
			nation
			Clinics

For lecture, laboratory and dissecting hours a schedule card is furnished. 80 per cent of attendance is required in all courses.

In addition to the regularly scheduled clinics, 100 hours additional daylight clinical work in the veterinary and canine hospitals connected with the College and at abattoirs and stock and dairy farms is required each year of second, third and fourth year students.

ANATOMY

TUNIS HICKS, D.V.M. Assistant Professor
 HARRY THOMAS CLAYTON, D.V.M. Instructor

The instruction in Anatomy is given in a series of lectures, demonstrations, recitations, and laboratory work, the latter being the most important.

The lectures are intended to present the general anatomical features of the horse and other domestic animals, and to point out the anatomical relations of the organs and parts of the body most subject to surgical operations.

The horse is used as the type subject in dissection, and every student is required to dissect all the parts of the horse, and such other of the domesticated animals, including the ox, sheep, swine, dog and cat, as may prove most expedient.

The laboratory is well supplied with all of the parts of the skeleton of the horse, and portions of the skeleton of various other domestic animals, for the work in osteology. Ample material is always available for the dissection of joints, muscles, viscera, and the vascular and nervous systems. The laboratory is also provided with a complete model of the horse, showing the relation of all the organs and parts of the body, for demonstrations in general and surgical anatomy. The course extends throughout the first and second years.

Text-book.—Sisson's Veterinary Anatomy.

HISTOLOGY AND EMBRYOLOGY

OSCAR BENWOOD HUNTER, M.D. Professor

These subjects are taught by a series of carefully correlated lectures, recitations, quizzes and demonstrations, and will include such instruction in microscopy as a working knowledge of the use of the simple and compound microscope and accessories, supplemented by the fundamental laws of optics; the method of preparing tissues for microscopic examination, and the technique of mounting.

Comparative histology will deal with the minute structure of the tissues and organs of various animals, including man. In addition to the microscopical demonstrations, lantern demonstrations will also be given.

Embryology under this head will present the salient features of the anatomy and physiology of the fecundated ovule up to the time of birth.

Text-book.—Piersoll.

PHYSIOLOGY

WILLIAM HENRY O'HARA, D.V.M. Instructor

The course in Physiology consists of lectures, demonstrations and laboratory exercises. The lectures cover all the important facts and

theories regarding bodily functions of the animal, and are illustrated by diagrams, models and prepared specimens.

In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of nerves and muscles, and on the special senses of animals.

Special emphasis is laid on the relation of normal physiological functions to the disturbances of function in disease and upon the physiological action of drugs.

It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with the succeeding course in Pathology, Therapeutics and General Veterinary Medicine.

Text-book.—Smith's Veterinary Physiology.

GENERAL CHEMISTRY

First Year

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor
OTIS DOW SWETT, S.M.....Assistant Professor

General Chemistry.—A series of illustrated lectures, accompanied by recitations and exercises on theoretical, inorganic, organic and technical Chemistry. The student is required to take notes on these lectures, which he must submit for examination.

Laboratory Practice.—A laboratory course for the study of the principles of chemistry which is designed to instruct students in the methods of conducting chemical experiments.

Text-book.—Holland's Medical Chemistry and Toxicology.

LABORATORY AND PHYSIOLOGICAL CHEMISTRY

Second Year

FRANK ADELBERT HORNADAY, S.B., M.D.....Professor

This course will consist of lectures and laboratory instruction, and includes the study of water from a sanitary standpoint; the chemical examination of milk, the tissues and fluids of the body; the isolation of the digestive enzymes, and a study of their action in vitro.

MATERIA MEDICA AND THERAPEUTICS

DAVID EASTBURN BUCKINGHAM, V.M.D.....Professor
HARRY ALOYSIUS LOCHBOEHLER, D.V.M.....Assistant Professor

Second Year

(1) Lectures upon and demonstrations of drugs and their preparations and doses used in veterinary practice will be followed by recitations to assist in memorizing. (2) Practical exercises will be given in prescription writing.

Fourth Year

(1) Systematic lectures upon the physiological action of drugs and their effects in disease, their therapeutic uses, and their methods of administration to animals. (2) Prescription writing, in which students are given hypothetical cases for which to prescribe. (3) The therapeutic application of various agencies not drugs.

Text-book.—Winslow's Veterinary Materia Medica and Therapeutics.

PRACTICE OF VETERINARY MEDICINE

JOHN POLLARD TURNER, V.M.D. Professor
FREDERICK WILLIAM GRENFELL, M.R.C.V.S. Assistant

This subject is taught by a series of lectures, recitations, quizzes and clinics extending over a period of two years.

The student is personally drilled in all the various diseases and doctrines taught in a well regulated veterinary school.

Especial attention is given to practical work whereby the student can become proficient in the diagnosis and treatment of disease.

Visits are required to the three veterinary hospitals in connection with the University, and personal attention is given students in visits to various large stables in and adjacent to the city of Washington, where practical instruction is given the third and fourth year classes in physical diagnosis among horses, cows and hogs.

Equal attention is given diseases of cattle as of horses, whereby the student is properly fitted for either city or country practice.

Diseases of food-producing animals will be thoroughly explained.

Text-books.—Freidberger and Froehner's Pathology and Therapeutics of Domestic Animals; Hutyra and Marek Special Pathology and Therapeutics of Domestic Animals; Malkmus' Clinical Diagnosis; Glass' translation of Muller's Diseases of the Dog.

VETERINARY SURGERY AND RESTRAINT

JOHN LOCKWOOD, D.V.S. Professor
CHARLES LOCKWOOD, D.V.S. Instructor

The instruction given in this course embraces systematic lectures upon the principles and practice of Veterinary Surgery.

The different surgical operations are illustrated in clinic and upon the cadaver, and the uses of all the important surgical instruments and appliances are demonstrated in the same manner. The use of anesthetics, the practice of dental surgery, and castration on all domestic animals will receive special attention.

Text-books.—Moeller's Operative Veterinary Surgery; Fleming's Operative Veterinary Surgery; Hobday's Canine and Feline Surgery; Williams' Principles and Practice of Veterinary Surgery; Pfeiffer and Williams' Surgical Operations; White's Restraint of Domestic Animals; Merillat's Surgery.

BACTERIOLOGY AND PATHOLOGY

OSCAR BENWOOD HUNTER, M.D.....Professor

Bacteriology.—This subject comprises laboratory instruction in the fundamental principles and methods of pure bacteriology. Thorough drilling is given in the preparation of culture media, in disinfection, sterilization, staining and the general methods of bacterial differentiation. Following this course, which is given daily during October, the further study of bacteria is taken up in connection with and as applied to pathology.

Pathology comprises the laboratory study of the general and special phenomena of inflammation, and a detailed study of the pathological processes found in the various diseases. The relation of bacterial and other microphytic life to disease processes and results is studied coincidentally and constitutes a course in applied bacteriology. In connection with the laboratory work a course of lectures and demonstrations is given upon immunity, serum therapy and protective inoculation.

Surgical Pathology.—A special course in the healing of wounds and injuries and in the pathology of surgical operations is given in the third and fourth years.

Clinical Microscopy.—Comprising the study of the various tissues, fluids, ejecta, and dejecta, with a view to diagnosis of diseased conditions, is given in the first part of the third year.

Text-book.—DeLafield and Prudden's Pathology, Hiss and Zinsser's Text-book on Bacteriology.

PATHOLOGY, TREATMENT AND CONTROL OF INFECTIOUS DISEASES

SAMUEL SUTHERLAND BUCKLEY, M.S., D.V.S.....Professor

The lectures in this course will be given with reference to the etiology, pathogenesis, symptoms, diagnosis, treatment and prevention of the infectious diseases. Local and national regulations and measures governing the control and eradication of diseases, with particular reference to the work of the United States Government in the eradication of infectious diseases will be clearly explained.

Text-books.—Hutyra and Marek, Special Pathology and Therapeutics of Domestic Animals, Volume I, translated by Mohler, Eichhorn and Fisher; Moore's The Pathology of Infectious Diseases of Animals; James Laws's Veterinary Medicine, Volume IV, third revised edition.

BREEDS AND BREEDING

DAVID E. BUCKINGHAM, V.M.D.....Professor

The course covers the chief phases of live-stock work, including the judging, breeding and management of horses, cattle, sheep and swine.

It is introduced by discussions upon the origin of animal life, natural selections, the origin of breeds and the domestication of animals, as well as the principles of breeding, heredity, environment, selection, individual conformation and the history and development of breeds.

Students obtain practical experience in the judging of the various breeds and classes of animals, by visits to neighboring farms.

Text-books.—Plumb's Types and Breeds of Farm Animals; Goubaux and Barrier's Exterior of the Horse.

FEEDS AND FEEDING

DAVID E. BUCKINGHAM, V.M.D.....Professor

This course will cover the principles of animal nutrition, balanced rations, practical feeding and the economical production of beef, milk, mutton and pork.

Text-book.—Henry's Feeds and Feeding.

HYGIENE AND DAIRY INSPECTION

CHAUNCEY MERLE GRUBB, D.V.M.....Assistant Professor

The course in Milk hygiene will be given by lectures and demonstrations throughout the second year. The students will be taught the theory of milk secretion, the composition and characteristics of milk, the various methods of testing, together with the chemistry and bacteriology of milk, abnormal forms of milk, and diseases transmissible through milk to bovines and human beings, with a study of the epidemics produced. Sanitary stabling and the sanitary handling of milk will be considered, showing the construction of various types of dairy barns and dairy houses, the manner of milking, care of the milk and the varieties and care of dairy utensils; also the study of sterilization and pasteurization.

Text-books.—Jensen's Milk Hygiene, translated by Pearson. Bulletin No. 56, Marine-Hospital Service, Milk and its Relation to the Public Health.

MEAT INSPECTION AND POST-MORTEM EXAMINATION

JESSE HAYES, D.V.M.....Instructor

The subject involves the control of food animals destined for slaughter; their ante-mortem and post-mortem inspection with reference to the diseases which affect the wholesomeness of the meat. Further, the preparation of meat-food products, the various methods of preservation of meat and the conditions to which the meat and meat products are subject due to the different infections and contaminations. The appli-

cation of the Regulations of the Department of Agriculture in connection with the judgment of carcasses, meats and meat-food products.

Practical demonstrations in meat inspection and judgment will be given at the local abattoirs.

Post-mortem examinations and demonstrations of morbid anatomy will be given, as opportunities arise, in the various hospital and ambulatory clinics in and about Washington, D. C. Special consideration will be given to discussion of gross pathological changes, procedure of technic, preparation of pathological specimens for museum purposes and methods of securing and forwarding material for diagnosis. Students will be required to write complete protocols of each case.

Text-book.—Mohler and Eichhorn's translation of Edelman's Meat Hygiene, second revised edition.

ZOOLOGY AND PARASITOLOGY

MARCUS WARD LYON, JR., M.D., Ph.D.....Professor

Zoology.—In this course a brief survey of the general principles of zoology is undertaken. The history of zoology, the classification of the animal kingdom, the structure of typical forms in the different Phyla and the distribution of animals on the face of the earth will be considered. The course is designed to familiarize the student with the main facts and theories of zoology.

Parasitology.—This course is designed to give the student a practical knowledge of animal parasites. The nature of parasitism, the classification of parasites and the structure and life histories of those parasites of importance from the standpoint of meat inspection and veterinary practice are considered. By the use of fresh and preserved materials the student is given a first-hand knowledge of the more important parasites. Due consideration is given to the diseases caused by animal parasites, their prophylaxis, treatment and eradication.

VETERINARY OBSTETRICS

CHAUNCEY MERLE GRUBB, D.V.M.....Assistant Professor

The course of instruction will consist of lectures on obstetrical anatomy, foetal development, presentations and the diseases incidental to the periods of gestation and parturition.

The lectures will be illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

Text-book.—Fleming, Dalrymple, Williams.

SHOEING AND BALANCING

CHARLES DAVID SKIPPON, D.V.M.....Instructor

The course is intended to familiarize students with the principles of shoeing, the examination of the feet and proper use of special shoes for relief of defects or disease.

Text-book.—Lungwitz on Horseshoeing, Adams' translation.

DENTISTRY

CHARLES DAVID SKIPPON, D.V.M.....Instructor

The course in dentistry includes lectures on the development of the teeth of the domesticated animals, the determination of age, irregularities of the teeth, oral surgery and dental clinics.

Text-book.—Merillats' Animal Dentistry and Diseases of the Mouth.

BOTANY AND TOXICOLOGY

CARL SNYDER, Phar.D.....Instructor

The course in botany embraces the general relation of plants, vegetative organs, their functions, reproductive organs and nutrition.

Ecological factors, diversity of plant life, evolution of sex, differentiation of tissues, and plant physiology will be fully considered.

PHARMACY

CARL SNYDER, Phar.D.....Instructor

Pharmacy includes the history and nomenclature of the U. S. Pharmacopoeia, metrology, metric system and common system of weights and measures. Principles employed in making various preparations, classification of official preparations, incompatibility.

Supplemented by laboratory work in which students are required to compound formulae of ointments, lotions, draughts and various preparations, official and extemporaneous.

VETERINARY JURISPRUDENCE

HENRY IGNACIUS QUINN, LL.M.....Instructor

A series of lectures upon the Law of Animals, including suggestions relating to the conduct of veterinarians as experts in the trial of cases involving the above law.

SPECIAL LECTURES

In addition to the foregoing courses of lectures, a number of government experts have been engaged to give lectures on subjects of special interest to the veterinarian.

These men are specialists in their lines of scientific research.

EXAMINATIONS AND DEGREE

Examinations are held at the end of the course in each subject. Students failing in examinations will be permitted to be re-examined at the next regular examination period. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Dean. In order to avail themselves of the privilege of re-examination, students must file their written applications with the Dean not later than fifteen days before the date set for the examinations.

Proficiency is marked upon a scale of 100. A grade of 70 is required to pass an examination. Students who fail to appear at the regular examination period will be charged a fee of \$3 for a special examination in each subject.

If a satisfactory examination is passed, the student receives the Degree of Doctor of Veterinary Medicine (D.V.M.).

PRIZES

1. Prize for student attaining highest average for whole course.
2. Prize for best work in operative surgery for senior student.
3. Prize for best anatomical specimen prepared by a Sophomore student.
4. Prize for best anatomical specimen prepared by a Freshman student.

In addition to the foregoing, students attaining a general average of 90 per cent or over for the entire course will be graduated "With Distinction," the same to be inscribed upon their diploma.

THE VETERINARY LIBRARY

This library is located in the Administration Building of the College of Veterinary Medicine, and is open from 8 a.m. to 10 p.m.

It contains, in addition to volumes on veterinary medical subjects, the current veterinary journals, and, as published, important new works on veterinary medicine.

OTHER LIBRARIES

Washington contains the Library of the Surgeon-General's Office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the government, is open to the public between the hours of 9 a.m. and 4.30 p.m. There is also the Library of Congress and the many excellent libraries of the various other government offices, in addition to the University Medical Library.

FEES AND CONTINGENT EXPENSES

1. Registration fee (payable annually).....	\$2
2. Association fee per annum.....	1
3. Tuition fee per annum.....	120
4. Fee for graduation.....	10

A discount of \$10.00 per annum on tuition is allowed if all fees for the year are paid before March 1 of the school year.

A deposit of \$5 per annum is required of every student to cover loss, breakage or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter-session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter-session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$6
Microscope for Bacteriological, Pathological and Clinical	
Microscopy Laboratory use.....	6

PAYMENT OF FEES

All fees are to be paid to the clerk. Tuition fees are payable quarterly, in advance. Registration and Association fees are payable in full, in advance.

STUDENT EMPLOYMENT

The College of Veterinary Medicine will aid students, especially those coming from a distance, to obtain suitable employment as a means of defraying a part or all of their expenses while in pursuit of their college course. Opportunities for such employment in Washington are exceptionally good. The many Departments of Government, the Library of Congress, Congressmen's secretaryships, law offices, contractors' and architects' offices, journalism, stenography, etc., offer a large number of positions of the most diverse kinds. While the College must not be understood as in any sense engaging to find employment for prospective students, in a great many cases important assistance can be rendered duly qualified applicants, if the fact of their desire to obtain employment is known. Applicants are particularly cautioned against coming to the University, intending to depend upon outside employment for support without being provided with funds sufficient to meet the expenses of at least the first half-year. Communications should be addressed to

THE DEAN,
*College of Veterinary Medicine,
George Washington University,
2113-2115 Fourteenth St. N.W., Washington, D.C.*

BOARD AND ROOMS

A register of approved boarding-houses is kept by the clerk. Accommodations cost from \$25 to \$40 a month.

For further information apply to

DAVID E. BUCKINGHAM, Dean,
George Washington University,
College of Veterinary Medicine,
Washington, D. C.

Nos. 2113-2115 Fourteenth St. N. W.

PART IV

STUDENTS IN THE UNIVERSITY

Names of students who have withdrawn or graduated are indicated by stars:
those who have entered since January 31, 1918, by daggers

DEGREES CONFERRED, MISCELLANEA

DEPARTMENT OF ARTS AND SCIENCES

In the enumeration of undergraduate students the column of figures indicates the number of semester-hours of work taken by the student prior to the beginning of the current academic year, 1917-18, and completed without conditions, or credited on advanced standing in candidacy for a degree. In Columbian College 120 credits are required for graduation; in Teachers College, 124; in the College of Engineering, 140.

SCHOOL OF GRADUATE STUDIES

IN ATTENDANCE

- Baruch, Ismar, [Conn.].....631 H St. N.W.
Ph.B., 1915, Brown University; M.A., 1916, Princeton University.
Topics—Chemistry, Physics.
- Beller, Elizabeth Caroline, [D. C.].....235 First St. N.E.
A.B., 1917, George Washington University. *Topic*—Education.
- Burgess, Harry Alfred, (N. Y.).....1200 Shepherd St.
A.B., 1914, Syracuse University. *Topic*—Electrical Engineering
- Caviness, Leon Leslie, [Md.].....721 Carroll Ave., Takoma Pk., Md.
A.B., 1906, University Michigan; A.M., 1913, University Nebraska.
Topic—Semitics.
- Clark, Emily Ethel, [Wis.].....1325 M St. N.W.
A.B., 1915, University of Wisconsin. *Topic*—Economics.
- Connet, Helene, [Md.].....1802 M St. N.W.
A.B., 1915, Goucher College. *Topics*—Physiology.
- Costen, Alta, [Md.].....East Falls Church, Va.
A.B., 1917, George Washington University. *Topic*—History.
- *Cotton, William Jacobs, [Africa].....325 Fifth St. S.E.
A.B., 1910, Ripon College; M.S., 1911, University of Wisconsin.
Topic—Chemistry.
- Covert, Roy Norton, [Ill.].....2821 27th St. N.W.
Topic—Meteorology.
- Dawson, Leo Henry, [Mass.].....3430 Albemarle St. N.
A.B., 1912, Clark College; A.M., 1914, Clark University. *Topic*—
Nautical Science.
- *Ellis, Helen Gordon (Mrs.), [Texas]
Apt. 51, The Victoria, 14th. and Clifton Sts.
S.B., 1911, University of Tennessee. *Topic*—German.
- Fearing, Justin Lincoln, [Mass.]
The Ethelhurst, Apt. 205, 15th and L St. N.W.
Topic—Electrical Engineering.
- Geare, Mrs. Dorothy Smallwood, [D. C.]
Leland St., Chevy Chase, Md.
A.B., 1912, George Washington University. *Topics*—Education,
History, Geology, Economics.
- Grabau, Edgar George, [N. J.].....1527 Rhode Island Ave. N.W.
B.S., 1916, Cooper University. *Topic*—Bacteriology.
- *Haden, Alberta Virginia, [Iowa].....4309 Kansas Ave.
A.B., 1915 Western Maryland. *Topic*—Bacteriology.

- Hahn, Glenn Gardner, [Cal.].....1424 11th St. N.W.
 B.S., 1914, University of California; M.S., 1916, University of California. *Topic*—Bacteriology.
- *Hartley, Carl, [Md.].....200 Spruce St., Takoma Pk., Md.
 A.B., 1907, University of Nebraska; M.A., 1909, University of Nebraska. *Topic*—Bacteriology.
- Hazen, William, [N. Y.].....1320 L St. N.W.
 B.S., 1913, City College, N. Y. *Topic*—Chemistry.
- Heron, Louis Mann, [D. C.].....1440 R St.
 B.S. in E., 1916, George Washington University. *Topic*—Electrical Engineering.
- Isler, Samuel, [D. C.].....1330 Belmont St. N.W.
 B.S., 1913, College of City of New York. *Topic*—Electrical Engineering.
- Leue, Conrad Frederick, [Ohio].....418 Evans Bldg.
 B.S. in C.E., 1900, University of Cincinnati; C. E., 1913, University of Cincinnati. *Topic*—Geology.
- Ly, Juwan Usang, [China].....214 B St. S.E.
 S.B., 1917, Haverford College; A.M., 1913, Columbia University. *Topics*—Philosophy, Mechanical Engineering.
- McKenna, Alexander George, [D. C.].....621 Alabama Ave.
 B.S. in Chem., 1891, Massachusetts Institute of Technology. *Topics*—Chemistry, Economics, Physics.
- Merz, Albert Ronald, [Va.].....1867 Monroe St.
 B.S. in Chem., 1909, University of Virginia; M.S., in Chem., 1911, University of Virginia. *Topics*—Chemistry Applied Mathematics, Civil Engineering.
- Mitchell, Herbert Francis, [Md.].....Laurel, Md.
 A.B., 1899, Princeton University; LL.B., 1904, Georgetown University. *Topic*—Education.
- Morris, Guy Terry, [N. Y.].....2625 Garfield St. N.W.
 M.E., 1912, Cornell University; S.M., 1917, George Washington University. *Topic*—Electrical Engineering.
- Paley, Lewis Adolphus, [Iowa].....201 I St. N.W.
 B.S. Chem., 1917, George Washington University. *Topics*—Chemistry, Mechanical Engineering.
- †Pankey, A. V., [Va.].....Room 443, Y. M. C. A.
 B.S., 1916, University of Virginia. *Topic*—Chemistry.
- Robertson, Ruby A., [Md.].....Rockville, Md.
 A.B., 1914, Western Maryland. *Topics*—Sociology, Economics.
- Rudolph, Bert Alexander, [Cal.].....1416 R St. N.W.
 B.S., 1914, University of California; M.S., 1915, University of California. *Topic*—Bacteriology.
- Shapiro, Lazarus, [N. Y.].....1123 6th St. N.W.
 B.S., 1914, College of City of New York; E.E., 1916, Columbia University. *Topic*—Electrical Engineering.
- Speare, Alden True, [Hawaii].....47 Park Ave. Takoma Pk., D.C.
 B.S., 1908, Dartmouth College; A.M., 1910, Harvard University. *Topic*—Geology.
- *Suntay, Angel, [P. I.].....208 Falkstone Courts
 A.B., 1915, Ateneo de Manila. *Topic*—Political Science.
- Wilson, Elizabeth Webb, [D. C.].....316 B St. S.E.
 A.B., 1917, George Washington University. *Topic*—History.
- Ostrow, Walter Wolf, [D. C.].....1414 12th St. N.W.
 A.B., 1916, George Washington University. *Topics*—French, Spanish.

MECHANICAL ENGINEER

- Halliburton, Robert Alexander, [N. C.].....1800 E St. N.W.
 B.S., 1917, Georgia School of Technology.
 *Walen, Ernest Dean, Mass.....1426 M St. N.W.
 B.T.E., 1914, Lowell Textile School.

MASTER OF SCIENCE

- Boyle, William Augustus, [N. Y.].....2032 F St. N.W.
 B.S., in Chem., 1917, George Washington University. *Topics*—
 Major, Chemistry; Minors, Geology, Mechanical Engineering.
 Burritt, Loren, [D. C.].....1855 Calvert St. N. W.
 B.S., 1917, Maryland State College. *Topics*—Major, Chemistry;
 Minors, Bacteriology, Chemistry.
 *Chapman, Josephine Willoughby, [Md.].....3168 18th St.
 A.B., 1915, Goucher College. *Topics*—Major, Psychology; Minor,
 Education.
 *Dearstyne, Roy Styring, [N. Y.]
 "The Prescott Arms," 21st and M St. N.W.
 S.B., 1917, Maryland State College. *Topics*—Major, Bacteriology;
 Minors, Chemistry, Chemistry.
 Dyer, Clarence A., [Maine].....Bureau of Chemistry
 B.S., 1914, Bates College. *Topics*—Major, Chemistry, Minors,
 Bacteriology, Chemistry.
 Evans, Annie Mary, [Mo.].....2246 Cathedral Ave.
 A.B., 1906, Vassar College; LL.B., 1913, Benton College of Law,
 St. Louis. *Topics*—Major, Chemistry; Minors, Chemistry, Bac-
 teriology.
 Evans, Morgan William, [Ohio]
 Office of Forage Crop Investigations, Dept. of Agric.
 B.S.A., 1906, Cornell University. *Topics*—Major, Botany; Minors,
 Zoology, Chemistry.
 Finks, Abraham Joseph, [Maine].....1223 K St. N.W.
 B.S., 1917, George Washington University. *Topics*—Major, Chem-
 istry; Minors, Chemistry, Bacteriology.
 Francis, Alfred West, [D. C.].....1436 W. St. N.W.
 B.S. in Chem., 1917, Worcester Polytechnic Institute. *Topics*—
 Major, Chemistry; Minors, Chemistry, Botany.
 Hidnert, Peter, [N. Y.].....Bureau of Standards
 A.B., February, 1918, George Washington University. *Topics*—
 Major, Physics, Minors, Chemistry, Chemistry.
 Hornaday, Frank Adelbert [Texas].....3509 14th St. N.W.
 B.S. in Gen. Sc. 1907, M.D., 1910 George Washington University.
Topics—Major, Chemistry, Minors, Chemistry, Pathology.
 Karger, Theresa, [D. C.].....2616 Cathedral Ave. N.W.
 S.B. in Chem., 1917, George Washington University. *Topics*—
 Major, Chemistry, Minors, Bacteriology, Histology.
 Knab, Frederick, [D. C.].....217 8th St. S.W.
Topics—Major, Zoology; Minors, Zoology, Botany.
 Kubushiro, Shojiro, [Japan].....324 Indiana Ave. N.W.
 B.S., 1907, Technical College, Tokio; Grad. Student 1910-11, Uni-
 versity of the Pacific, Cal.; Grad. Student, 1914-16 Columbia;
 University, N. Y.; *Topics*—Major, Bacteriology; Minors, Chem-
 istry, Chemistry.
 Lewis, Ollie Lee, [Ky.].....Weather Bureau
 A.B., 1917, George Washington University. *Topics*—Majors,
 Mechanical Engineering, Physics, Minors, Applied Mathematics.

- McGeorge, William Thomas [Kansas]..Apt. 312, S. Northbrook Courts
S.B., 1909, University of Kansas. *Topics*—Major, Chemistry,
Minors, Chemistry, Bacteriology.
- McVey, John Ignatius, [Cal.].....702 19th St. N.W.
A.B., 1917, University of California. *Topics*—Major, Civil Engi-
neering, Minors, Civil Engineering, Mechanical Engineering.
- Moore, Milton Donaldson, [S. C.]..State Relation Serv. Dept. of Agric.
A.B., 1913, George Washington University. *Topics*—Major, Zool-
ogy; Minors, Zoology, Botany.
- *Nash, Preston Melvin, [D. C.].....217 First St. N. E.
B.S. in Chem., 1917, Maryland State College. *Topics*—Major,
Chemistry; Minor, Chemistry.
- *Rankin, Robert Leon, [N. J.].....The Raymond
Ph.B., 1914, Lafayette College. *Topics*—Major, Physics; Minors,
Physics, Electrical Engineering.
- Weinstein, Reuben, [N. Y.].....40 New York Ave. N. W.
A.B., 1914, George Washington University. *Topics*—Major, Chem-
istry; Minors, Chemistry, Bacteriology.
- Willis, Warren Jennison, [Minn.]...Hydrographic Office Navy Dept.
Graduate, 1912, U. S. Naval Academy. *Topics*—Major, Physics;
Minors, Nautical Science, Chemistry.
- Young, James Lawrence, [D. C.]
Chemical Dept. Washington Gas Co. 26th and G N. W.
B.S. in Chem., 1917, George Washington University. *Topics*—
Major, Chemistry; Minors, Chemistry, Physics.

MASTER OF ARTS

- Au-Young, Sam Nung, [China].....730 22nd St. N. W.
A.B., February, 1918, George Washington University. *Topics*—
Major, Political Science; Minors, Political Science, Education.
- *Blackman, Daniel, [Pa.].....816 18th St. N. W.
A.B., 1917, Pennsylvania State College. *Topics*—Major, Psychol-
ogy; Minors, Education, Sociology.
- *Burke, Ellen Teresa, [D. C.]..531 Jefferson St., Brightwood Pk., D. C.
A.B., 1916, George Washington University. *Topics*—Major, Eng-
lish; Minor, Sociology, Spanish.
- Clapp, John Norman, [N. Y.]....721 Carroll Ave., Takoma Pk., D. C.
A.B., 1917, Washington Missionary College. *Topics*—Major, Edu-
cation; Minors, Education, Philosophy.
- *Davis, Dorothea C., [Mont.].....2112 F St. N. W.
A.B., 1916, University of Montana. *Topics*—Major, Sociology;
Minors, Economics, History.
- Eldridge, Harriet Dayton, [D. C.].....2017 Park Rd.
A.B., 1917, George Washington University. *Topics*—Major, Eng-
lish; Minors, History, Spanish.
- Ferris, Lula Hansena, [N. Y.]....719 Carroll Ave., Takoma Pk., D. C.
A.B., 1917, Washington Missionary College. *Topics*—Major, Eng-
lish; Minors, Education, Education.
- Fromm, Conradine, [Ore.].....1824 Ingleside Terrace N. W.
A.B., 1917, Albany College, Albany, Ore. *Topics*—Major, English;
Minors, English, French.
- Gatchell, Marie Ellen, [D. C.].....1736 Pk. Rd.
A.B., 1916, George Washington University. *Topics*—Major, Eng-
lish; Minors, History, Education.
- Gsantner, Jr. Otto Carl, [D. C.].....2811 24th Mt. N. E.
A.B., 1915, George Washington University. *Topics*—Major, Eng-
lish; Minors, Education, English.

- Henry, Jerry Maurice, [Va.].....337 North Carolina Ave. S. E.
A.B., 1909 Bridgewater College. *Topics*—Major, History; Minors,
Education, English.
- Hercent, Marie Louise, [France].....Central High School
A.B., 1916 University of California. *Topics*—Major, French;
Minors, History, Spanish.
- Hollinger, Archie Reed, [Pa.].....323 D St. S. E.
A.B., 1915, Pennsylvania College, Gettysburg. *Topics*—Major,
English; Minors, English, Philosophy.
- *Houghton, Carlos Cranford, [D. C.]
3732 Jocelyn St. Chevy Chase, D. C.
A.B., 1913, George Washington University. *Topics*—Major, Eng-
lish; Minors, Philosophy, History.
- *Huff, (Mrs.) Daisie Morgan, [D. C.]....1430 Rhode Island Ave. N. W.
A.B., 1913, George Washington University; S.B., 1902, Valparaiso
University. *Topics*—Major, Education; Minors, English, Phil-
osophy.
- *Judd, Bess Eloise, [Utah].....1366 Parkwood Pl. N. W.
A.B., 1913, University of Utah. *Topics*—Major, French; Minors,
Spanish, German.
- Kayser, Elmer Louis, [D. C.].....3129 O St. N. W.
A.B., 1917, George Washington University. *Topics*—Major, His-
tory; Minors, History, Political Science.
- Knowles, Margaret Morton, [Va.].....East Falls Church, Va.
A.B., 1916, George Washington University. *Topics*—Major, Eng-
lish; Minors, History, English.
- Lindsey, Merritt Eugene, [N. Y.].....4013 14th St. N. W.
Diploma, 1901 University of New York, B.P., 1902, Ohio Northern
University, Ada, O.; B.S., 1904 Ohio Northern University, Ada
O. *Topics*—Major, Sociology; Minors, History, Political Science.
- Lineveaver, William Showalter, [Va.]...Barcroft, Alexandria Co., Va.
A.B., 1913, Bridgewater College. *Topics*—Major, Education; Mi-
nors, Political Science, History.
- Longacre, Charles Smull, [D. C.]....102 Park Ave., Takoma Pk., D. C.
A.B., 1914, Emanuel Missionary College, Berrien Springs, Mich. *Top-
ics*—Major, Philosophy; Minors, Political Science, Psychology.
- Mace, Jr. Brice Martin, [D. C.].....1907 G St. N. W.
A.B., 1908, Cumberland University, Lebanon, Tenn. *Topics*—Major,
Economics; Minors, Economics, History.
- *McGuire, Ollie Roscoe, [La.].....
A.B., 1917, Louisiana State University. *Topics*—Major, Political
Science; Minors, Economics, English.
- Maxson, (Mrs.) Leila Scott, [D. C.].....Eastern High School
A.B., 1913, George Washington University. *Topics*—Major, Edu-
cation; Minors, Education, Economics.
- Milliken, Florence Ethel, [D. C.].....463 P St. N. W.
A.B., 1915, George Washington University. *Topics*—Major, Eng-
lish; Minors, History, Education.
- Monk, Ella May, [D. C.].....1423 Harvard St. N. W.
A.B., 1913, George Washington University. *Topics*—Major, Eng-
lish; Minors, History, Sociology.
- Myers, Charles Gutilius, [Md.].....Rockville, Md.
A.B., 1905, Western Maryland College. *Topics*—Major, Education;
Minors, Education, Philosophy.
- Nordlie, Leonard Truman, [Wis.].....3310 Warder St. N. W.
A.B., 1917, Park Regent College Fergus, Falls, Minn. *Topics*—
Major, Economics; Minors, Sociology, Sociology.

- Ocampo, Pedro Jose, [P. I.]..... The Alabama
A.B., 1911, Atenco de Manila; LL.B., 1915, Escuela de Derecho de
Manila. *Topics*—Major, Political Science; Minors, Political
Science, History.
- Pearce, Paul Nelson, [Mich.]..... 6615 1st St. N. W. Takoma Pk.
A.B., 1916, Union College, Neb. *Topics*—Major, English; Minors,
History, Sociology.
- Peirce, Lois Emma, [D. C.]..... 229 Pennsylvania Ave. S. E.
A.B., 1917, George Washington University. *Topics*—Major, Edu-
cation; Minors, Philosophy, Education.
- Pope, Ruth Vesta, [D. C.]..... 1340 Meridian Pl. N. W.
A.B., 1913, George Washington University. *Topics*—Major, Eng-
lish; Minors, Education, Education.
- Pratt, Gladys Ford, [Mass.]..... 1104 M St. N.W.
A.B., 1914, Mount Holyoke College. *Topics*—Major, History; Mi-
nors, History of Art, Sociology.
- Reeve, Felicia Ann, [D. C.]..... 1626 19th St.
A.B., 1917, George Washington University; Bachelor's Diploma in
Education, 1917, George Washington University. *Topics*—Ma-
jor, French; Minors, French, Spanish.
- Robey, Mabel Alida, [Md.]..... The Cordova
A.B., and Diploma 1917, George Washington University. *Topics*—
Major, Philosophy; Minors, Education, Sociology.
- Schulz, George J., [Md.]..... College Pk., Md.
A.B., 1917, George Washington University. *Topics*—Major, Polit-
ical Science; Minors, Economics, Education.
- *Seibold, (Mrs.) Theodosia Darling, [D. C.].. 756 Rock Creek Church Rd.
B.A., 1917, George Washington University. *Topics*—Major, Eng-
lish; Minors, German, Political Science.
- Smith, Kathleen Marie, [Md.]..... Riverdale, Md.
A.B., 1916, Trinity College, D. C. *Topics*—Major, English; Mi-
nors, French, Spanish.
- *Somervell, (Mrs.) Mary Burke, [D. C.]..... 2800 13th St. N. W.
A.B., 1903 University of Chicago. *Topics*—Major, English; Minors,
English, Archaeology.
- Sorensen, Christian Martin, [Md.]
Flower and Carroll Aves. Takoma Pk., Md.
A.B., 1917, Washington Missionary College. *Topics*—Major, Edu-
cation, Minors, Philosophy, Sociology.
- Stanton, Eleanore Winifred, [R. I.]..... 3323 O St. N. W.
A.B., February 1918, George Washington University. *Topics*—
Major, Political Science; Minors, Sociology, Economics.
- Steever, Laura Winfield, [D. C.]..... 2106 F St. N. W.
B.S., 1911 George Washington University. *Topics*—Major, Soci-
ology; Minors, Education, Preventive Medicine.
- VanDoren, Emma May, [D. C.]..... 629 Massachusetts Ave. N. E.
A.B., 1917, Diploma, 1917, George Washington University. *Top-
ics*—Major, Education; Minors, English, German.
- Weber, Angelia Washburn, [Colo.]... Washington College, Takoma Pk.
A.B., 1912, Colorado State Teachers College. *Topics*—Major,
Education; Minors, English, Education.
- Wells, Jessie Lander, [Tenn.]..... 107 R. I. Ave. N. W.
A.B., 1911, University of Colorado. *Topics*—Major, Philosophy;
Minors, English, Sociology.
- Whitaker, Dorothy VanDyke, [Pa.]..... 922 F St. N. W.
B.S., 1917, University of Pennsylvania. *Topics*—Major, Psychol-
ogy; Minors, Sociology, History.

- Whitford, Bessie, [D. C.].....3369 18th St. N.W.
A.B., 1917, George Washington University. *Topics*—Major, English; Minors, Philosophy, German.

DOCTOR OF PHILOSOPHY

- Albertsworth, Edwin Franklin, [D. C.],
130 Carroll Ave., Takoma Pk., D. C.
A.B., 1915, A.M., 1916, George Washington University. *Topics*—Major, History; Minor, Philosophy.
- Baker, Arthur Challen, [Va.].....Bureau of Entomology
S.B. in Agr., 1911, University of Toronto. *Topics*—Major, Zoology; Minors, Zoology, Botany.
- Barrows, Harry Percy, [D. C.].....1334 Corbin Pl. N. E.
B.S., 1911, Utah Agricultural College; S.M., 1917, George Washington University. *Topics*—Major, Education; Minors, Sociology, Economics.
- Colley, Reginald Hunter, [N. H.]....218 Park Ave., Takoma Pk., Md.
A.B., 1909, Dartmouth College; A.M., 1912, Harvard University. *Topics*—Major, Botany; Minors, Paleontology, Zoology.
- *Collins, James Harold, [Maine].....3323 Mt. Pleasant
A.B., 1907, Bowdoin College; M.D., 1915, A.M., 1917, George Washington University. *Topics*—Major, Physiology; Minors, Psychology, Anatomy.
- Craighead, Frank Cooper, [Pa.] Bur. of Entomology U. S. Dpt. Agric.
BS., 1912, Pennsylvania State College; M.S., 1915, George Washington University. *Topics*—Major, Zoology; Minors, Zoology, Paleontology.
- *Dennis, Showell Coulbourn, [Md.]
Maryland State College, College Pk, Md.
B.S., 1912, Maryland State College; M.S., 1915, George Washington University. *Topics*—Major, Chemistry; Minors, Chemistry, Bacteriology.
- Donk, Peter John, [D. C.].....1706 F St. N. W.
B.S. in Chem., 1917, George Washington University. *Topics*—Major, Bacteriology; Minors, Bacteriology, Chemistry.
- Ellison, Everett Monroe, [Tenn.].....The Toronto
A.B., 1901, A.M., 1903 Grant University; M.D., 1912, George Washington University. *Topics*—Major, Physiology; Minors, Pharmacology, Psychiatry.
- Elvove, Elias, [D. C.].....1228 H St. N. E.
S.B., 1903, S.M., 1904, University of Kentucky; Pharm.D., 1910, George Washington University. *Topics*—Major, Chemistry; Minors, Pharmacology, Physiology.
- Fusfeld, Irving Sidney, [N. Y.].....Gallaudet College, Kendall Green
B.S., 1915, Columbia University; B.Ped., 1916, Gallaudet College; M.A., 1917, Columbia University. *Topics*—Major, Education; Minors, History, Economics.
- Garber, John Absalom, [Va.].....204 4th St. S. E.
A.B., 1891 Bridgewater College; A.M., 1915, George Washington University. *Topics*—Major, Education; Minors, Sociology, Philosophy.
- Garby, Carl D., [Idaho].....Bureau of Chemistry
S.B. in Chem. Eng., 1914, University of Idaho. *Topics*—Major, Chemistry; Minors, Physics, Geology.
- Grant, Dudley Hopkins, [Ohio].....Bureau of Chemistry
S.B., 1914, University of Chicago; M.S., 1917, George Washington University. *Topics*—Major, Chemistry; Minors, Preventive Medicine, Geology.

- Gravatt, George Flippo, [Va.].....1444 Fairmont St. N. W.
B.S., 1911, M.S., 1912, Virginia Polytechnic Institute. *Topics*—
Major, Botany; Minors, Bacteriology, Zoology.
- Griffin, Edward Lawrence, [Kan.].....229 Rock Creek Church Rd.
A.B., 1911, S.B., 1912, S.M., 1913, University of Kansas. *Topics*—
Major, Chemistry; Minors, Chemistry, Bacteriology.
- Heathcote, Charles William, [Pa.].....607 Union Trust Bldg.
A.B., 1905, A.M., 1908, Pennsylvania College, Gettysburg; A.M.,
1912, University of Pennsylvania. *Topics*—Major, History; Mi-
nors, History, Sociology.
- Hobbs, Ewart William, [Iowa].....2111 18th St. N.W.
LL.M., 1910, National University Law School; A.B., 1916, A.M.
1917, George Washington University. *Topics*—Major, Philos-
ophy; Minors, Philosophy, English.
- Huddle, John Thomas, [Va.].....738 11th St. N. W.
A.B., 1891, A.M., 1896, Roanoke College, Va.; Diploma, 1896,
Gettysburg Theological Seminary. *Topics*—Major, English;
Minors, Psychology, Philosophy.
- John, Otto Marion, [Ill.].....719 Carroll Ave., Takoma Pk., D. C.
A.B., 1908, Union College; S.M., 1917, George Washington Uni-
versity. *Topics*—Major, Chemistry; Minors, Zoology, Bacteri-
ology.
- John, Walton Colcord, [Ill.].....114 Carroll Ave., Takoma Pk., D. C.
A.B., 1914, A.M., 1915, George Washington University. *Topics*—
Major, Education; Minors, Psychology, Philosophy.
- Julihn, Carl Edward, [Cal.].....Bureau of Mines
E.M., 1904, Columbia University. *Topics*—Major, Geology; Mi-
nors, Mineralogy, Economics.
- *Lowe, Edith Blinston, [D. C.].....2622 Woodley Pl.
A.B., 1911, A.M. 1912, George Washington University. *Topics*—
Major, English; Minors, English, History.
- McArthur, Louis Eugene, [Utah].....2112 F St. N. W.
A.B., 1916, A.M., 1917, George Washington University; B.Pd.,
1897, Brigham Young University. *Topics*—Major, Political Sci-
ence; Minors, History, Economics.
- McNemar, Leslie Cleveland, Judge Advocates General Office, Navy Dept.
J.D., 1917, University of Chicago; Law School. *Topics*—Major,
International Law and Diplomacy; Minors, Political Science,
History.
- Minnick, Arthur, [D. C.].....1921 Hamlin St. N. E.
A.B., 1897, University of Chicago; LL.B., 1903, Lake Forest Uni-
versity; M.P.L., 1907, George Washington University. *Topics*—
Major, Chemistry; Minors, Physiology, Bacteriology.
- Muerman, John Charles, [D. C.].....1701 Park Rd. N. W.
A.M., 1916, George Washington University. *Topics*—Major, Edu-
cation; Minors, Education, Sociology.
- *Patrick, Wellington, [Okla.].....1814 G St. N. W.
A.B., 1915, A.M., 1917, George Washington University. *Topics*—
Major, Education; Minors, Philosophy, Philosophy.
- Pfeiffer, John Arthur Franklin, [Md.]...Government Hosp. for Insane
M.D., 1908, Baltimore Medical College; A.M., 1916, George Wash-
ington University. *Topics*—Major, Pathology; Minors, Bacteri-
ology, Psychology.
- Pierce, Roy Gifford, [Neb.].....6813 5th St. Takoma Pk., D. C.
A.B., 1907, S.B., 1907, University of Nebraska; S.M., 1908, Uni-
versity of Michigan. *Topics*—Major, Botany; Minors, Botany,
Zoology.

- Rankin, John Owen, [Iowa].....Station A., Ames, Iowa
A.B., 1904, Tarkio College; A.M., 1912, George Washington University. *Topics*—Major, Economics; Minors, Political Science, International Law.
- Ryan, William Carson, Jr., [N. J.]..Bur. of Education, 8th and F Sts.
A.B., 1907, Harvard University. *Topics*—Major, Education; Minors, German, French.
- Ryan, Calvin Taylor, [Md.].....411 Duke St., Alexandria, Va.
A.B., 1911, A.M., 1914, Washington College. *Topics*—Major, English; Minors, Education, Political Science.
- Salisbury, Elon Galusha, [D. C.]..127 Darroll Ave., Takoma Pk., D. C.
B.S., 1911, Union College; A.M., 1917, George Washington University. *Topics*—Major, Education; Minors, Philosophy, Sociology.
- Schmitt, Waldo Lasalle, [D. C.].....2233 18th St.
B.S., 1913, George Washington University; M.A., 1916, University of California. *Topics*—Major, Zoology; Minors, Zoology, Palaeontology.
- Smith, Edward Elmer, [Idaho].....332 Seaton Pl. N. E.
B.S. in C.E., 1914, University of Idaho; M.S., 1916, George Washington University. *Topics*—Majors, Chemistry, Physics; Minors, Preventive Medicine, Geology.
- Swett, Otis Dow, [Md.].....1335 H St. N.W.
LL.B., 1891, LL.M., 1892, B.S., 1904, Columbian University; M.S., 1909, George Washington University. *Topics*—Major, Chemistry, Minors; History, Bacteriology.
- Wetmore, Frank Alexander, [D. C.].....1912 Hamlin St. N. E.
A.B., 1912, University of Kansas; M.S., 1916, George Washington University. *Topics*—Major, Zoology; Minors, Zoology, Palaeontology.

COLUMBIAN COLLEGE

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Figures in parentheses represent the number of credits.

- †Abbott, John S., Jr., (0), [D. C.].....1619 R St.
Dept. of Agriculture
- Adams, James M. R., (19), [D. C.].....1637 Harvard Terrace
- Adams, Leslie H., (32), [D. C.].....Mt. Rainier, Md.
- Aman, John Andrew, (36), [Md.].....60 Randolph Pl.
- Anderson, Robert Nelson, (3), [D. C.].....3477 Holmead Pl.
- Andrews, Eleanor H., (0), [D. C.].....2628 Carfield St.
- Arledge, Caroline Mascotte, (60), [D. C.].....78 U St.
- †Arnell, Harriette Locke, (12), [D. C.].....24 2d St. N.E.
- Arnold, Rosemary, (12), [D. C.].....Herndon, Va.
- *Aud, William Seneca, (4), [Va.].....730 22d St.
- *Au-Young, Sum Nung, (117), [China].....3433 14th St.
- Ave-Lallemant, Ernest W., (128), [Wis.].....The Kenesaw Apt.
- †Babcock, George Woodman, (0), [D. C.].....The Kensington
- Bache, Louise Franklin, (95), [D. C.].....2000 16th St.
- *Baily, Frederick Rogers, (0), [D. C.].....1650 Irving St.
- *Baker, Arline May, (6), [D. C.].....1623 R St.
- Baker, Esther Lenore, (41), [Iowa].....28 Seaton Pl.
- *Barr, M. Richard, (63), [D. C.].....1929 Lawrence St. N.E.
- Bartlett, Barbara Elizabeth, (0), [D. C.].....Y. M. C. A.
- *Bartlett, Llewellyn, G., (0), [Pa.].....Rutland Courts Apts.
- Baxter, Mary C., (0), [Ohio].....

Bennett, Ava L., (3), [Ohio].....	1774 U St.
Bennett, Ruth Hilton, (71), [D. C.].....	3420 Mt. Pleasant St.
Bennetts, Mildred, (22), [D. C.].....	1941 First St.
Berg, Anna E., (0), [Ill.].....	1814 G St.
†Bernick, Philip, (0), [Colo.].....	1418 Columbia St.
Bingham, Dorothy, (7), [Fla.].....	224 Randolph Pl. N.E.
†Blair, Hazel Athol, (0), [Kans.].....	1468 Harvard St.
Blanken, David, (0), [D. C.].....	1408 6th St.
*Bloedorn, Alvin Octavius, (0), [Colo.].....	2725 13th St.
*Bogen, Emil, (105), [Ohio].....	1121½ 12th St.
Boteler, Charles M., (3), [D. C.].....	616 North Carolina Ave. S.E.
*Bowen, George Loveridge, (17), [Kans.].....	1628 K St.
Bradley, Everett Lamont, (124), [D. C.].....	60 S St.
Brady, Julia C., (0), [Ill.].....	1224 13th St.
†Brandenburg, Dorothy I., (0), [D. C.].....	1824 Calvert St.
*Brattain, Paul H., (54), [Ind.].....	420 10th St. N.E.
Bristow, Margaret Rouse, (21), [D. C.].....	3179 18th St.
Brown, Erma, (28), [Mo.].....	Cavendish Apt.
*Brown, Estella E., (18), [Md.].....	Berwyn, Md.
Brown, Wager S., (73), [D. C.].....	5301 Connecticut Ave.
Browne, Thomas, (0), [D. C.].....	229 7th St. N.E.
Bruno, Emilie Margaret, (3), [D. C.].....	1468 Monroe St.
Bryant, Beatrice Stelle, (9), [D. C.].....	322 East Capitol St.
Buchman, Eva Rebecca, (6), [Iowa].....	4518 15th St.
Burkhart, Ward Miller, (0), [Pa.].....	1736 G St.
Burlingame, Lucy Llewellyn, (91), [D. C.].....	1419 22d St.
Burton, Mary Lou, (0), [Ore.].....	1416 K St.
Burton, William Cameron, (6), [D. C.].....	424 8th St. N.E.
Bynum, Gattye Louise, (0), [Tenn.].....	229 First St. N.E.
Callahan, Dolly Marthena, (42), [Va.].....	209 Duke St., Alexandria Va.
Callahan, Mildred Ruberta, (42), [Va.].....	213 South Fairfax St., Alexandria, Va.
Carden, Mary Stuart, (3), [D. C.].....	4105 5th St.
Carden, Samuel Poe, (100), [Texas].....	4105 5th St.
Carnahan, Lina Wright, (87), [Mo.].....	3603 13th St.
*Carothers, Rezin James, (6), [Ohio].....	2909 P St.
Carr, Elma Bebee, (62), [D. C.].....	1403 Buchanan St.
Cartmell, Leon E., (66), [Miss.].....	502 B St. N.E.
Cave, Dorothea Virginia, (9), [D. C.].....	1110 Virginia Ave. S.W.
Celander, Esther A., (0), [Ill.].....	1008 I St.
Center, Florence Perley, (0), [N. J.].....	2127 First St.
Chesnul, Charles V., (9), [Mass.].....	2026 G St.
Chesley, Furber, (24), [Texas].....	816 21st St.
Cheyney, William James, (0), [D. C.].....	1448 Park Rd.
*Childs, Ralph S., (6), [D. C.].....	121 12th St. S.E.
Chu, King, (24), [China].....	1916 G St.
*Church, Earl R., (6), [Mich.].....	1105 8th St.
Clarke, Beverly, (0), [D. C.].....	707 20th St.
Cochran, Doris Mabel, (37), [D. C.].....	2027 First St.
†Cohen, Isaac, (0), [N. Y.].....	2510 M St.
*Cohen, Louis Samuel, (102), [Conn.].....	1115 6th St.
*Collier, Neil Rex, (39), [D. C.].....	The New York Apt.
*Cook, Irene, (0), [Ohio].....	227 East Capitol St.
Cook, J. Williamson, (0), [D. C.].....	213 2d St. S.E.
Cooper, Russell Hay, (0), [W. Va.].....	1736 G St.
Cooperman, Hattie, (50), [Iowa].....	2510 M St.
Cotton, Cornelia Marie, (0), [D. C.].....	3342 38th St.

Cottrell, Casper Lehman, (46), [Penna.]	2140 G St.
Coughlin, Elva E., (7), [D. C.]	1312 Delafield Pl.
Crain, Helen Newcomb, (19), [D. C.]	127 Tennessee Ave. N.E.
*Crawford, James N., (20), [D. C.]	1907 G St.
Crawford, John Williams, (98), [Ark.]	3212 19th St.
Creim, Benjamin W., (0), [Cal.]	2140 G St.
Crissman, Philip A., (30), [Iowa]	727 20th St.
*Croggon, Mary Esther, (6), [D. C.]	636 E St. S.W.
*Croswell, Lois, (36), [D. C.]	811 C St. S.W.
Cullen, Elizabeth Orlan, (97), [D. C.]	307 B St. N.E.
Dabney, Marion Gordon, (33), [Va.]	2009 I St.
Dana, Helen S., (0), [N. Y.]	1329 L St.
Daniel, Julia Irene, (34), [D. C.]	512 Randolph St.
Daniels, Ruby A., (14), [D. C.]	16 Carroll Ave., Takoma Pk., D. C.
*Davis, Dean, (0), [Ga.]	119 2d St. N.E.
Davis, Elizabeth Aileen (104), [D. C.]	2212 First St.
Davis, Frances Geschickter (92), [D. C.]	1222 Connecticut Ave.
*Day, Raymond Putnam, (0), [Ohio]	58 Q St.
Demopoulos, Christos J., (78), [D. C.]	452 K St.
Densmore, Ethel May, (24), [N. Y.]	618 I St.
*Dibble, Louis V. S., (0), [N. Y.]	1330 Vermont Ave.
†Dietz, Joseph Martin, (14), [Colo.]	1740 Pennsylvania Ave.
*Dillard, Guy Edward, (0), [Tenn.]	1358 Fairmount St.
*Dortch, Jane M., (0), [D. C.]	1510 Park Rd.
†Douglas, Elsie Young, (80), [D. C.]	2129 G St.
Dowling, Zach, (0), [Ala.]	1908 H St.
Drake, Alice Hutchins, (21), [D. C.]	2611 Adams Mill Rd.
Dunham, Catherine M., (0), [Ind.]	103 Maryland Ave. N.E.
*Dunnells, Cora K., (77), [Ohio]	318 Wardman Courts
Earnest, John Paul, Jr., (34), [D. C.]	2123 N St.
Earnshaw, Eleanore A., (42), [D. C.]	224 8th St. S.E.
*Eastman, William B., (0), [Del.]	1214 Massachusetts Ave.
Ebling, Samuel G., (59), [Ohio]	816 B St. S.W.
†Eckel, Arthur Frederick, (32), [Ill.]	1903 17th St.
Einstein, May B., (31), [D. C.]	619 19th St.
Ellis, George Stoughton, (53), [D. C.]	3363 18th St.
*Ellis, Miner Sears, (59), [D. C.]	3363 18th St.
English, Jr., George W., (0), [D. C.]	805 B St. S.E.
*Enlows, Harold F., (86), [D. C.]	24 Carroll Ave., Takoma Pk., D. C.
Enyart, Alta M., (0), [D. C.]	2120 G St.
Erdahl, Leonard, (98), [Minn.]	Federal Trade Commission
*Etheridge, Florence, (82), [Mass.]	224 A St. S.E.
Fadeley, Fenton Mercer, (87), [D. C.]	1527 Newton St.
*Farrell, Thomas Francis, (48), [Mass.]	717 21st St.
Feldman, Abraham, (0), [D. C.]	2022 Portner Pl.
†Fern, Edwin S., (0), [Iowa]	620 22nd St.
*Finch, Ruy H., (54), [Ohio]	Weather Bureau
Frank, Florence V., (0), [D. C.]	220 N. St.
Freeman, Caul Hjalman, (0), [Iowa]	620 22nd St.
*Freeman, Stella Martyn, (0), [D. C.]	260 15th St. S. E.
Freese, Manuel Lloyd, (114), [D. C.]	1210 Massachusetts Ave.
Friedman, Bernhart A., (50), [D. C.]	1312 Belmont St.
*Frizzell, Paul J., (0), [D. C.]	3566 13th St.
Gassman, Janet J., (0), [D. C.]	1845 Ontario Pl.
Gates, Phebe Chappell, (20), [D. C.]	1817 Lamont Ave.
Geschickter, Charles, (6), [D. C.]	1222 Connecticut Ave.
*Gessford, Rodger D., (0), [D. C.]	2536 14th St.

Gill, Minna, (58), [Md.]	313 East Capitol St.
*Gladstone, Newton Abel, (0), [D. C.]	1748 8th St.
*Gleason, Phoebe Marjorie (24), [D. C.]	1418 W St.
*Godbold, Albea, (31), [Miss.]	Bureau of Labor Statistics
Godfrey, Clarence Mortimer, (30), [D. C.]	915 14th St. S. E.
*†Gordon, Zona, (0), [D. C.]	1522 U St.
Grabill, Mary Eloise, (88), [D. C.]	16 New York Ave., Takoma Pk.
Graham, H. Wayne, (34), [Ohio]	1443 T St. N. W.
†Gray, Edith May, (0), [D. C.]	207 3rd St., N. E.
Gregg, Alexander White, (32), [Texas]	The Cairo
Gross, Richard J., (36), [Ohio]	39th & Windom Pl.
Guilford, Anne E. Wells, (36), [D. C.]	401 D St. N. E.
†Hale, Ralph Cochran, (0), [Tenn.]	1225 Pennsylvania Ave.
*Hall, Marie E., (12), [D. C.]	1019 E St. N. E.
Hanson, Edward J., (0), [N. C.]	1810 G St.
Hanson, R. W., (0), [D. C.]	2022 F St.
*†Harring, Harry Kryger, (123), [D. C.]	1436 W St.
Harvey, Margaret, (120), [D. C.]	1603 Kenilworth Ave.
Harvey, Rosamond, (36), [D. C.]	2007 F St.
Hastings, George Sands, (0), [D. C.]	3600 Ordway St.
Hatcher, James Chandler, (0), [Ala.]	1703 New York Ave.
Hauke, Rilla M., (74), [D. C.]	605 Massachusetts Ave. N. E.
Haworth, Katherine Frothingham, (57), [Cal.]	The Seville
Haycraft, Charles, (0), [Minn.]	23 Todd Pl. N. E.
Hayden, Mary Ernestine, (6), [D. C.]	706 8th St.
Hazen, Joseph Harrington, (0), [N. Y.]	1370 Kenyon Ave.
*Heap, Alta, (6), [D. C.]	1303 R St.
Heitmuller, Elizabeth R., (55), [D. C.]	1307 14th St.
Heitmuller, Ralph Emmert, (3), [D. C.]	1307 14th St.
*Hellmuth, Everett Albert, (76), [Va.]	1739 H St.
Heron, Katherine Juanita, (89), [D. C.]	5437 Connecticut Ave.
Herrmann, Jane E., (96), [Md.]	1736 Columbia Rd.
†Herz, Charles, (84), [Ky.]	1206 K St.
Herzmark, Maurice Hart, (95), [D. C.]	1631 Newton St.
Hess, Russell W., (30), [Md.]	Brentwood, Md.
*Hicks, Arthur J., (22), [Mich.]	433 G St.
Hidnert, Peter, (118), [N. Y.]	Bureau of Standards
†Hobbs, Pauline Bowen, (30), [D. C.]	The Beacon
*Hoer, Walter C., (33), [Fla.]	1916 16th St.
Hohenstein, Arthur Edwin, (24), [Ill.]	505 4th St.
*Holm, Adolph, (65), [Minn.]	2035 F St.
Hopiak, Walter V., (24), [Penna.]	1823 G St.
Hornaday, James H., (33), [D. C.]	1419 Newton St.
Horwitz, Alec, (3), [D. C.]	916 4½ St., S. W.
*Hostetter, D. Ralph, (50), [Penna.]	623 C St. N. E.
*Howe, James Henry, (0), [Miss.]	2023 G St.
Howell, Ada M., (3), [D. C.]	1317 C St. N. E.
†Hsie, C. H., (85), [China]	2023 Kalorama Rd.
Huff, Charles R., (36), [Minn.]	Y. M. C. A.
Hummer, Marian Virginia, (0), [D. C.]	1010 Massachusetts Ave. N. E.
Humphrey, Mary Elizabeth, (30), [D. C.]	406 R. I. Ave.
Huse, Fay Irene, (59), [Mont.]	1262 Columbia Rd.
*Hutchinson, Robert F., (0), [D. C.]	1406 Chapin St.
Jackson, Lawrence Oscar, (99), [Colo.]	17 T St., N. E.
Jacobs, Benjamin R., (83), [Cal.]	1502 Meridian Pl.
Jacobson, Hannah H., (0), [Iowa]	1104 M St.
*Jameson, Ruth M., (0), [D. C.]	209 13th St. N. E.

†Janson, Ruth, (0), [Ohio].....	1420 Irving St. N. E.
Joergensen, Hans, (96), [D. C.].....	812 E St. S. E.
*Johnson, Anna Elizabeth, (18), [Ind.].....	4413 8th St.
Johnson, David Lee, (0), [Penna.].....	642 C St. N. E.
*Johnson, Edward H., (8), [Texas].....	518 Newton St.
Johnson, Ethel May, (0), [Penna.].....	1207 Emerson St.
*Johnson, John Lawrence, (7), [Idaho].....	923 Massachusetts Ave.
†Johnston, Robert Lee, (32), [N. C.].....	2007 G St.
*Johnstone, Willard H., (0), [D. C.].....	2006 N St.
Jonas, Josephine Marie, (82), [D. C.].....	1704 Oregon Ave.
Jones, Evelyn Wellington, (6), [D. C.].....	3719 Keokuk St.
Kahn, Esther, (100), [D. C.].....	1810 Ontario Pl.
*Kantor, Solomon, (118), [N. Y.].....	2474 Ontario Rd.
Kebler, Victor Lyman, (92), [D. C.].....	1322 Park Rd.
*Keenan, Gerald J., (82), [N. Y.].....	1739 P St.
Kelly, Paul, (24), [Ga.].....	1739 P St.
Kendall, Leonard A., (56), [Iowa].....	620 22nd St.
Kerr, Mary Belle, (124), [Mo.].....	1906 Florida Ave.
Khan, Naghi, (103), [Persia].....	1513 16th St.
King, Adrienne, (93), [Utah].....	1801 16th St.
Kirby, Homer H., (24), [Ohio].....	912 19th St.
*Knight, Helen, (0), [Va.].....	207 Prince St., Alexandria, Va.
Knights, Alice Fern, (50), [Minn.].....	1200 18th St.
*Kresge, Earle E., (3), [N. Y.].....	1009 Irving St.
*Laden, Nathaniel Henry, (9), [Conn.].....	2405 18th St.
†Laff, Herman I., (0), [Colo.].....	1418 Columbia St.
*Langellotti, Frank, (74), [N. Y.].....	2114 H St.
*Larrison, Margaret Fargo, (0), [Wash.].....	1821 Monroe St.
*Lasley, Wm. Albert, (28), [N. C.].....	941 H St.
*Latta, James Bullen, (0), [D. C.].....	2836 27th St.
Lazaro, Elaine, (30), [La.].....	Falkstone Courts
Lazaro, Heloise Cecilia, (30), [La.].....	Falkstone Courts
Lee, Agnes Irene, (12), [D. C.].....	327 10th St. N. E.
Lehman, Roland J., (29), [Ill.].....	1404 Harvard St.
*Levine, Hyman, (23), [N. Y.].....	1408 Girard St.
Lindow, Oscar Henry, (66), [Wis.].....	513 22nd St.
Littell, Nelson, (58), [Ind.].....	1830 Kenyon St.
Lloyd, Leonila M., (49), [D. C.].....	Manor House
Logan, Daniel Nichol, (25), [D. C.].....	21 Bates St.
Long, Catherine Davenport, (30), [Wis.].....	The Ontario
Louis, Max C., (22), [D. C.].....	47 Quincey Pl. N. E.
†Lynch, Willis R., (22), [Cal.].....	1277 New Hampshire Ave.
Lyon, Quinter M., (30), [D. C.].....	636 South Carolina Ave. S. E.
McCloud, Marie Congdon, (39½), [D. C.].....	1620 16th St.
*McConkey, Mont, (62), [Minn.].....	424 Kenyon St.
McConnell, Mary Gladys, (0), [Texas].....	117 C St., N. E.
McDaniel, Mina Timms, (108), [Wash.].....	The Clermont
*McElhinney, Wm. I., (0), [D. C.].....	The Albemarle
*McGrew, Martha Steele, (64), [Tenn.].....	Fairmont Seminary
McHenry, John Geiser, (0), [Penna.].....	1110 13th St.
McKendree, Laurette, (12), [N. H.].....	1300 Fairmont St.
McKenna, Philip Maury, (65), [D. C.].....	Congress Heights, D. C.
*McLaughlin, Mildred A., (106), [Texas].....	22 Carroll Ave., Takoma Park, D. C.
Mague, Roscoe E., (1), [Mass.].....	Ethelhurst Apts.
Massie, Mattie L., (18), [Texas].....	2400 16th St.
†Mattern, Bess, (0), [Ind.].....	3411 Brown St.

*Matthews, Mary Pearce, (0), [D. C.]	2120 P St.
Maul, Sarah Elizabeth, (3), [D. C.]	14 Channing St.
Mayes, Mary Elizabeth, (0), [D. C.]	The Blenheim Apt.
Mays, Leland W., (0), [Utah]	515 East Wardman Courts
Merrihew, Orrel Lincoln, (73), [Cal.]	515½ 22nd St.
*Metcalf, Cyrus A., (0), [Vt.]	2023 G St.
Metzerott, Margaret, (0), [D. C.]	119 12th St., S. E.
Metzerott, Gertrude, (29), [D. C.]	The Northumberland
Miller, Walter L., (19), [Neb.]	204 Pennsylvania Ave., S. E.
Mills, Eddie L., (64), [Texas]	2002 G St.
Minner, Victor J., (0), [Ill.]	1360 Harvard St. N. W.
Minor, Carl Olin, (28), [Iowa]	650 6th St. N. E.
Mitchell, Anne Louise, (0), [D. C.]	1812 Irving St. N. E.
Mondell, Dorothy, (0), [Wyoming]	2110 O St.
Moore, Margaret M., (0), [Mo.]	101 North Carolina Ave. S. E.
Moore, Mildred Josephine, (34), [D. C.]	111 Tennessee Ave. N. E.
Moran, Catherine Regis, (34), [D. C.]	1727 Columbia Rd.
Moran, Margaret Louise, (0), [D. C.]	1727 Columbia Rd.
Morawski, John M., (0), [Mass.]	442 Massachusetts Ave.
Morehouse, Pgd B., (107), [D. C.]	Pension Office
*Morris, William R., (0), [Kans.]	2323 Pennsylvania Ave.
Mottern, Albert Joseph, (52), [Ohio]	2112 G St.
Mullendore, Claud Harold, (0), [Kansas]	1322 Massachusetts Ave.
Munger, Hester Irene, (67), [D. C.]	1339 Montague St.
Naylor, Evelyn, (42), [D. C.]	629 12th St. N. E.
Nelms, Henning C., (34), [D. C.]	1121 12th St.
Nelson, Agnes C., (37), [N. Dak.]	2524 17th St.
Nelson, Ruth J., (42), [Wis.]	2240 Cathedral Ave.
Newton, Mary Alice, (3), [D. C.]	The Concord
Nickel, Alice J., (0), [D. C.]	229 F St. N. E.
Nordlinger, George, (66), [D. C.]	3113 N St.
Northcutt, William S., (36), [Ga.]	206 13th St. N. E.
Padgett, Mildred, (51), [D. C.]	1726 Euclid St.
*Paine, Ethel C., (84), [Penna.]	510 Randolph St.
*Paltridge, George H., (114), [Mich.]	1222 O St.
Parsons, Berith, (89), [D. C.]	125 Willow Ave.
†Pease, Cecil Agnes, (0), [N. Dak.]	3603 13th St.
Peet, Elizabeth, (104), [D. C.]	Kendall Green
Pennebaker, William Boone, (0), [D. C.]	3021 Q St.
Perlin, Harry, (32), [Conn.]	2016 G St.
*Perlman, Joseph, (71), [N. Y.]	1726 P St.
Petrie, Mary Esther, (64), [D. C.]	2815 6th St. N. E.
*Pfefferkorn, Ethan B., (90), [Wis.]	U. S. Civil Service Com:
*Phillips, Albert Jefferson, (0), [D. C.]	1769 Columbia Rd.
†Phillips, William Harold, (0), [Iowa]	2131 F St.
Phoebus, Gladys Edith, (6), [D. C.]	1925 North Capitol St.
Pierce, Clifford Davis, (4), [Tenn.]	434 Massachusetts Ave.
Pitcher, Lois, (0), [D. C.]	3910 McKinley St.
Pollner, Nona B., (24), [D. C.]	3200 Park Pl.
Pope, Darwin Jesse, (27), [D. C.]	3214 Newark St.
Preinkert, Margaret, (40), [D. C.]	1511 L St.
Quinn, David Long, (36), [Md.]	619 G St.
Ranck, James Byrne, (30), [D. C.]	1405 15th St.
Rappaport, Harry, (38), [N. Y.]	1926 New Hampshire Ave.
Ravenel, Henry, (37), [D. C.]	1611 Riggs Pl.
Redinger, Carl Chalmers, (0), [W. Va.]	1426 M St.
Reeves, George Torreyson, (36), [Va.]	Ballston, Va.

Reinboth, John Franklin, (6), [Ill.]	1916 G St.
Reynolds, Frances Core, (59), [D. C.]	3038 Dumbarton Ave.
Reynolds, Olive A., (24), [D. C.]	503 River Rd., Chevy Chase, D. C.
*Richards, Anna Christine, (33), [D. C.]	The St. Nicholas.
Richards, Eleanor, (19), [D. C.]	1825 Corcoran St.
*Richardson, Elizabeth Laura, (83), [D. C.]	1001 Alabama Ave., Congress Heights, D. C.
*Richardson, Maude, (0), [D. C.]	1832 Biltmore St.
Ring, Freda, (0), [D. C.]	1215 Harvard Street
Roberts, Allen Hunt, (3), [Va.]	Alexandria, Va.
*Robey, Henry, (0), [Md.]	1113 11th St.
Rockow, Lewis, (36), [Wis.]	509 L St.
*Rohrer, Francis Sheppard, (0), [D. C.]	1515 31st St.
Rooney, William Francis, (0), [Mass.]	729 20th St.
Rowland, Mittie Elston, (0), [Tenn.]	1359 Perry Pl.
Rush, Anna May, (6), [D. C.]	1277 New Hampshire Ave.
Rush, Lyle Virginia, (98), [D. C.]	1277 New Hampshire Ave.
Ryan, Inez Buffington, (60), [D. C.]	The Naples.
Salant, Edward Oliver, (27), [D. C.]	3429 34th Pl.
Salzer, George W., (98), [N. Y.]	226 N St.
Sanborn, Rebekah, (40), [D. C.]	1000 Douglas St. N.E.
*Saperstein, David, (0), [N. J.]	2474 Ontario Rd.
Saunders, Marie K., (116), [Okla.]	3025 P St.
Schaff, Martha E., (38), [D. C.]	1824 Monroe St.
*Schellfeffer, Frank, (90), [Ill.]	1108 New Hampshire Ave.
Schoenfeld, Margaret H., (85), [D. C.]	3448 34th Pl.
Schoffstall, Charles Warren, (12), [Penna.]	2140 G St.
†Scott, Charles Carlisle, (0), [Ill.]	Y. M. C. A.
Scott, Howard, (96), [D. C.]	1715 Euclid St.
Seaton, Dorothy McKinstry, (0), [Va.]	Glencarlyn, Va.
See, Ernest A., (22), [W. Va.]	109 E St.
Selden, Paul H., (82), [D. C.]	1862 Park Rd.
Shannon, Aldora L., (0), [Mo.]	505 M St.
Shannon, Eleanor B., (0), [Mo.]	505 M St.
*Shaw, Margaret, (18), [D. C.]	3604 Newark St.
*Shaw, Roderick Kirkpatrick, Jr., (0), [D. C.]	Wyoming Apts.
Sheriff, George Rothwell, (0), [D. C.]	1462 Newton St.
*Shoults, Worth E., (10), [Md.]	Riverdale, Md.
Shreve, Adrienne Alba, (9), [D. C.]	1729 Kilbourne St.
Simmons, Rush Nelson, (1), [Minn.]	1404 M St.
Simmons, William V., (0), [Miss.]	109 Maryland Ave. N.E.
Skelton, Edythe Lilian, (0), [Va.]	620 B St. S.W.
Sloan, William M., (0), [Neb.]	320 House Office Bldg.
*Smallwood, Graeme Thomas, (52), [D. C.]	3520 16th St.
Smith, Annie Martin, (80), [Texas]	1391 17th St.
†Smith, Estelle Howes, [N. Y.]	1822 I Street
Smith, Margaret Fisher, (3), [D. C.]	The Victoria
Smith, Talma L., (111), [Texas]	Bureau of Census
Sommers, Goodloe Gooch, (0), [Va.]	133 E St.
Sornborger, Dorothy Gertrude, (110), [D. C.]	1857 Newton St.
Stanton, Eleanor Winifred, (120), [R. I.]	3323 O St.
Stecher, Karl, (101), [Kan.]	Y. M. C. A.
Steele, Glenn, (60), [Id.]	Children's Bureau
Stephens, H. Clay, Jr., (87), [Tenn.]	24 Grant Pl.
*Stephens, Virgila T., (28), [N. Dak.]	1738 T St.
*Sterling, Edward Arthur, Jr., (0), [Texas]	1445 Girard St.
*Stevens, Ruth, (6), [Mass.]	The Naples

*Steward, Marion, (0), [Mich.]	2934 Macomb St.
Stimpson, Charlotte Gordon, (44), [D. C.]	2141 Wyoming Ave.
*Stockett, Norman Joseph, (39), [D. C.]	923 North Carolina Ave. S.E.
*Stoddard, Ida May, (3), [Wis.]	3153 Mt. Pleasant St.
Stretch, Clarence L., (69), [Conn.]	2015 G St. N.W.
†Styer, Ralph A., (73), [Pa.]	1354 Monroe St.
Sun, Tsuli, (96), [China]	2001 19th St.
Symmonds, Katherine Godfrey, (0), [Md.]	Willard Courts.
Tait, Beatrice Wilkins, (24), [D. C.]	Western Ave. and Elliott St. N.W.
Taylor, Olive Rodgers, (61), [D. C.]	447 Randolph St.
†Taylor, Raymond M., (0), [D. C.]	404 B St. N.E.
Thompson, George Dixon, (67), [D. C.]	3155 19th St.
Thompson, Lila, (34), [Wis.]	1325 M St.
*Tilton, Fletcher Sanford, (20), [D. C.]	1317 19th St.
Titus, Hilda, (3), [N. J.]	1211 Columbia Rd.
Tolnas, Trygoe Johann, (102), [Ga.]	521 4th St.
Tonkin, Maurice Bradley, (0), [D. C.]	2121 15th St.
Tonne, William H., (27), [D. C.]	Washington Barracks
Tourelle, Henriette, (68), [France]	1348 Irving St.
Trundle, May H., (0), [D. C.]	1409 Webster St.
Tucker, Alice Edna, (31), [D. C.]	802 Massachusetts Ave. N.E.
Tucky, Margaret McDade, (0), [D. C.]	40 T St.
Umhau, Emilie Mary, (84), [D. C.]	3305 16th St.
Underwood, Eugene, Jr., (64), [Ill.]	707 20th St.
Van Wagner, G. L., (0), [Cal.]	1511 L St.
Van Waters, Sherwood P., (74), [D. C.]	1338 Vermont Ave.
Vaux, Catherine L., (85), [D. C.]	1504 Park Rd.
Vickers, Rose, (0), [Md.]	3339 N St.
Vincent, Lillian Elizabeth, (0), [Mass.]	1311 K St.
Voorhees, Elizabeth Aston, (50), [D. C.]	3456 Newark St., Cleveland Pk.
Voorhees, Mary Toucey, (3), [D. C.]	3456 Newark St., Cleveland Pk.
Voorus, Robert A., (20), [Pa.]	2120 G St.
Waldenmaier, Bernadine, (64), [D. C.]	80 U St.
Wallick, Earle W., (78), [Ill.]	1916 G St.
*Walter, Francis E., (114), [Pa.]	504 I St. N.W.
Waring, Martha Lucy, (34), [D. C.]	616 Quebec Pl. N.W.
Waring, Paul E., (23), [D. C.]	1423 Newton St.
Warren, Lee Ella, (3), [D. C.]	1341 Columbia Rd.
†Watzman, Percy, (0), [D. C.]	25 Eye St. N.E.
Weers, Lealand H., (0), [Ill.]	3427 Holmead Pl.
Weigandt Harry N., (0), [S. Dak.]	507 3d St.
Weihe, Ruth, (0), [D. C.]	4009 Marlboro Pl.
*Welch, William Wilson, (0), [D. C.]	1354 North Carolina Ave.
†Wells, F. Estelle, (66), [Tenn.]	107 Rhode Island Ave.
Wells, Teresa Pearl, (31), [Nebr.]	642 Irving St.
†Wentz, Harry Herman, (30), [Minn.]	Y. M. C. A.
West, Warren Reed, (93), [D. C.]	304 D St. N.E.
*Whaland, Norman D., (18), [Mass.]	1408 New Hampshire Ave.
*Whitaker, Lorenze Dow, (24), [D. C.]	937 14th St. S.E.
White, Frank Kiggens, (28), [D. C.]	1110 Columbia Rd.
Whitford, Margaret Elizabeth, (31), [D. C.]	3369 18th St.
*Wilbur, William Knapp, (34), [D. C.]	1205 Columbia Rd.
Wiley, Virgil Brooks, (6), [D. C.]	312 South Carolina Ave. S.E.
Wilfley, Katherine, (0), [D. C.]	1483 Harvard St.
Wilhite, Dorothy, (0), [D. C.]	1867 California St.
Wiley, Martha C., (0), [D. C.]	202 A St. S.E.
Williams, Harold S., (35), [Ill.]	1207 East Capitol St.

*Willis, Warren Jennison, (111), [Minn.].....	Hydrographic Office
*Wilson, Anna L., (0), [D. C.].....	505 3d St.
Wilson, Gordon K., (0), [Pa.].....	821 C St. S.W.
Wilson, Margery Evelyn, (85), [Kans.].....	2711 Ontario Rd.
Wingate, Edward G., (0), [D. C.].....	1701 Park Rd.
†Wittmann, Max A., (0), [Mass.].....	1124 12th St.
Wolf, Ethel, (90), [D. C.].....	626 22d St.
*Woodward, Harry Stott, (0), [D. C.].....	3500 16th St.
Working, Elmer Joseph, (29), [Colo.].....	1311 Decatur St.
Wright, John Edward, (0), [Ill.].....	1916 16th St.
Wu, Bing Sang, (8), [China].....	2023 Kalorama Rd.
Yaden, Flora L., (3), [Ky.].....	4119 Illinois Ave.
Yohe, Ethel Craigen, (36), [D. C.].....	1758 S St.
Young, Augusta Freeman, (71), [N. Dak.].....	1830 16th St.
Zucker, Joseph, (2), [N. Y.].....	Coast and Geodetic Survey

BACHELOR OF SCIENCE IN MEDICINE

Ballinger, William McCormick, (6), [D. C.].....	1489 Newton St.
Bosch, Guadalupe, (0), [P. R.].....	4512 Georgia Ave.
Cole, Hazen Eugene, (21), [D. C.].....	639 East Capitol St.
Dauksys, Joseph V., (6), [N. J.].....	1916 16th St.
Davis, Joshua William, (32), [Pa.].....	1101 K St.
Deep, Anthony Abraham, (6), [D. C.].....	500 K St.
Edelstein, Benedict Meyer, (0), [Pa.].....	1438 F St. N.E.
*Fitzgerald, Judson Hardwick, (0), [D. C.].....	1729 Riggs St.
Gaines, John Marshall, (12), [Va.].....	Alexandria, Va.
Greenwood, Mary Maud, (2), [D. C.].....	806 Maryland Ave. N.E.
A.B., 1917, George Washington University	Cherrydale, Va.
Harnsberger, Charles Whitford, (0), [Va.].....	Alexandria, Va.
Haynes, William Preston, (0), [Ky.].....	1706 S St.
Johnson, Regina Cook, (0), [Md.], 15 Grafton St., Chevy Chase, D. C.	2107 G St. N.W.
*Laning, Sereno Belle, (0), [Md.].....	129 Randolph Pl.
Lansche, Elmer A., (20), [Ill.].....	4512 Georgia Ave.
McChesney, Frank Marks, (44), [D. C.].....	3620 13th St.
Martinez, Mercedes, (0), [P. R.].....	1314 13th St.
Parker, Ruth Barnard, (0), [D. C.].....	Y. M. C. A.
Protas, Maurice, (0), [D. C.].....	719 11th St.
Rydzewski, Joseph B., (29), [Pa.].....	531 18th St.
*Shefferman, N. W., (8), [D. C.].....	Fairfax, Va.
*Sohner, Harvey Ingle, (0), [Iowa].....	1315 12th St.
*Strother, George Thomas, (0), [Va.].....	4512 Georgia Ave.
Stuart, Marjorie Shaw, (6), [D. C.].....	2645 Connecticut Ave.
Torres-Perez, Eloisa, (6), [P. R.].....	
*Whitehead, Jos., Jr., (0), [D. C.].....	

SPECIAL PRE-MEDICAL

Bergstrom, Fred K., (0), [Utah].....	515 Wardman Courts East
Brown, Radford Talbott, (3), [D. C.].....	The Ashley
Hodgkins, Bradley Duncan, (0), [D. C.].....	2006 N St.
McClosky, William T., (0), [D. C.].....	421 F St.
*Ruth, Earl A., (15), [Mo.].....	1916 16th St.
Sowder, C. S., (6), [Idaho].....	923 Massachusetts Ave.
Stephens, David M., (0), [D. C.].....	6929 15th St.
Taylor, Robert Mitchell, (0), [D. C.].....	1240 Pennsylvania Ave. S.E.

SPECIAL

Aaronson, Naomi S., [D. C.].....	1106 Fairmont St.
Aaronson, Sara S., [D. C.].....	1106 Fairmont St.
Abel, Myrtle, [Ill.].....	1223 Vermont Ave.
Adams, Myra Norton, [Mass.].....	1407 Delafield Pl.
Allan, Jocelyn, [Canada].....	2125 S St.
*Allen, 2d, Robert Joseph, [N. Y.].....	Y. M. C. A.
Allen, Wallace Brown, [Md.].....	Auditor's Bldg., 14th and B Sts. S.W.
Allen, William Bruce, [Ore.].....	
Div. Registered Mails, P. O. Dept., 12th and Pennsylvania Ave.	
†Ammerman, Dorothy May, [Pa.].....	517 8th St. N.E.
*Anderson, Ernest Gustaf, [Minn.].....	1741 G St.
*Anderson, George Wesley, [N. Y.].....	Naval Hospital
*Apple, Rose E., [D. C.].....	2809 11th St.
†Arnold, Lester Dallas, [Va.].....	1300 Fairmont St.
Ashby, Mary L., [D. C.].....	1605 Irving St.
*Bailey, Theodora C., [D. C.].....	3920 Grant Rd.
Ballman, Edna, [D. C.].....	36 Columbia Ave., Takoma Pk.
Banks, Andrew Jackson, [D. C.].....	712 I St. N.E.
*Banks, Dolly Madison, [Ky.].....	Chatham Courts
*Bantz, Dorothy, [D. C.].....	1628 S St.
Bartsch, Sigme C. G., [D. C.].....	1456 Belmont St.
Bassett, Jane B., [Conn.].....	3509 Macomb St.
†Bassett, Samuel B., [D. C.].....	1428 Webster St.
†Bates, Edwin, [Ohio].....	1323 Vermont Ave.
†Beachley, Ralph Gregory, [Md.].....	1310 L St.
Bean, C. Nelson, [Va.].....	1016 Woodward Bldg.
*Beatty, Iris, [D. C.].....	4027 9th St.
Beckwith, Augusta O., [N. Dak.].....	1322 L St.
Bedinger, Josephine, [D. C.].....	2835 27th St.
Beidleman, Margaret D., [Pa.].....	1331 K St.
†Bertschinger, Marguerite, [Switzerland].....	Swiss Legation
†Biehl, Bonnie Jean, [Ky.].....	142 N St. N.E.
Bielskis, Julius J., [D. C.].....	3613 14th St.
*Bissel, Ruth Elizabeth, [D. C.].....	1410 M St.
*Bjornson, Eveyln N., [D. C.].....	The Ventosa
Bloedorn, Ella May, [D. C.].....	2725 13th St.
*Bossard, Florence C., [N. Y.].....	1314 Park Rd.
Bouchal, John L., [Neb.].....	Copley Courts
†Bowers, Vashti C., [Wash.].....	933 G St.
Boyd, Elizabeth S., [D. C.].....	3611 Woodley Rd.
Brachlow, Willard N., [Minn.].....	1907 G St.
Bradt, Jane, [Va.].....	Falls Church, Va.
*Brawner, Edwin Irving, [Va.].....	417 North Columbus St., Alexandria, Va.
†Brewer, Margaret Halsey, [D. C.].....	1851 Columbia Rd.
*Broadwin, Abraham, [N. Y.].....	808 H St.
Brooke, Allan Farquhar, [D. C.].....	Sandy Spring, Md.
Broward, Elsie, [D. C.].....	1443 Massachusetts Ave.
Brown, Leila M., [D. C.].....	1203 Girard St.
Browne, Margaret M., [D. C.].....	1304 Kenyon St.
A.B., 1916, George Washington University	
Bruce, Clarence Smoot, [D. C.].....	2601 11th St.
†Buchanan, LaForest Lee, [Iowa].....	3001 24th St. N.E.
*†Buchnam, Kate Dana, [D. C.].....	1207 Rhode Island Ave.
Buettner, Philip, [D. C.].....	1507 Park Rd.
Burchfield, William E., [D. C.].....	4429 Georgia Ave.

Burgunder, Selma Kann, [D. C.]	Burlington Apts.
Burns, Mary K., [D. C.]	1719 13th St.
Burrows, Tremaine K., [D. C.]	6902 5th St.
Byrnes, Alice S., [D. C.]	3238 R St.
†Callihan, Loyzelle J., [Ark.]	1410 Euclid St.
A.B., 1917, George Washington University	
Campbell, Jean T., [D. C.]	301 8th St. N.E.
Carlson, Vivian, [N. Y.]	1419 R St.
Carnes, Herbert Edward, [D. C.]	305 7th St. N.E.
Carr, Emily Christian, [D. C.]	2127 R St.
Carroll, Irene, [D. C.]	The Cavendish
†Casey, Rosella, [R. I.]	1854 2d St.
Chapliner, Vance Duncan, [Neb.]	The Benedict
†Chester, Jean, [Ark.]	1428 Newton St.
Christopher, Clinton J., [Minn.]	2030 F St.
Clark, Clyde F., [Iowa]	Indian Bureau
Classen, Magda C., [Ill.]	1011 K St.
Clifford, Ernest, [D. C.]	506 Longfellow St.
Clouser, Mabel M., [Ohio]	1420 Irving St. N.E.
*Cobb, John D., [D. C.]	1539 Eye St.
*Cochran, George Bond, [D. C.]	1215 19th St.
†Cole, Mary J., [D. C.]	2115 P St.
*Collins, Elinore W., [D. C.]	Monroe Courts
Compson, Cornelia, [N. Y.]	517 Harvard St.
Connor, Mary [D. C.]	130 D St. S.E.
*Cook, Walter Gresham, [Ark.]	2003 G St.
*Cooney, Arabella V., [D. C.]	2523 14th St.
*Copping, Edward John [D. C.]	Walter Reed Hospital
Corbitt, Hugh B., [Wash.]	Hygienic Laboratory
Cornell, Herbert W., [Colo.]	119 Thomas St.
*Cranford, Dorothy, [D. C.]	1607 22d St.
Cranford, Mrs. J. H., [D. C.]	1607 22d St.
*Cummings, Florence, [D. C.]	1333 Valley Pl. S.E.
*Cunningham, Chloris D., [D. C.]	2460 Ontario Rd.
*Cushing, Harriet M., [D. C.]	1629 Que St.
*Dahlberg, Nan A., [Mich.]	1123 13th St.
†Davis, Anna F., [Va.]	13 Rosemont, Alexandria, Va.
*Davis, Emily C., [D. C.]	1320 Vermont Ave.
*Davy, Elsie M., [Md.]	4 Leland St., Chevy Chase, Md.
DeAguiro, Manuel, [Cuba]	Dept. of Justice
Deisher, Estella E., [D. C.]	The Plymouth
de Lashmutt, Rebekah Leiter— [D. C.]	1438 N
Demaree, Harry S., [D. C.]	1916 16th St.
†Dengler, Edith L., [Pa.]	2019 N St.
Denham, Ruth Millicent, [D. C.]	714 21st St.
A.B., 1910, George Washington University	
*DeTar, Marion D., [Ind.]	2012 O St.
Dias, Anna K., [D. C.]	1409 21st St.
*Dixon, Lulu M., [D. C.]	The Highlands
Dohemy, E. L., Jr., [D. C.]	2400 16th St.
Doniphan, Edwin D., [D. C.]	109 Maryland Ave. N.E.
*Dorsett, Gladys, [N. J.]	9 5th St. S.E.
Dortch, William B., [D. C.]	1510 Park Rd.
*Dulles, Nataline, [N. Y.]	1323 18th St.
†Dunbar, Mae Veronica, [N. Y.]	3401 16th St.
Duplan, Oscar E., [Mexico]	1413 I St.
*Durham, Thomas S., [Va.]	132 U St.

Dwyre, Dudley G., [D. C.]	451 Quincey St.
*Echols, Marion Vail, [D. C.]	2805 14th St.
Eckman, Lulu Lee, [Ohio]	3914 Huntington St.
Ellis, John F., [D. C.]	1333 Vermont Ave.
Ellison, Minnie D., [D. C.]	Patent Office
Engle, Rilla M., [Md.]	1435 N St.
Ernest, Julia R., [Pa.]	44 I St.
Evans, Griffith, [N. Y.]	506 Randolph St.
Evans, Harriet R., [D. C.]	150 U St. N.E.
Fagan, Margaret, [D. C.]	1930 17th St.
Farrell, Raymond W., [Ind.]	Y. M. C. A.
Farrington, Charlotte Rainsford, [D. C.]	2518 17th St.
A.B., 1909, George Washington University	
*Fast, Arthur H., [D. C.]	1829 19th St.
†Finck, Herbert Ferdinand, [N. J.]	1011 20th St.
Fineran, Mary M., [D. C.]	116 C St. S.E.
*Fisher, Mary R., [D. C.]	1223 Girard St. N.E.
*Flickinger, Samuel J., [N. J.]	Biltmore Apts.
*Flyshman, Belle, [D. C.]	132 East Capitol St.
Fox, Margaret Lyman, [Md.]	Silver Spring, Md.
*Freeman, Stella Martyn, [D. C.]	260 15th St. S.E.
*French, Charles Eugene, [D. C.]	625 Elliott St. N.E.
French, Virginia D., [D. C.]	The Cecil Apts.
French, William Thomas, [Va.]	1531 Vermont Ave.
Freyer, F. B., [D. C.]	Navy Dept.
*Fridley, Daisy Florence, [D. C.]	628 Lexington Pl. N.E.
Friedland, Karl B., [D. C.]	216 Cavanaugh Courts
Frost, Beulah Malvina, [Minn.]	1322 Rhode Island Ave.
Gadsby, Marguerite, [N. Y.]	1523 22d St.
Gaffey, Frank C., [N. Y.]	828 12th St.
Garber, Alma Marie, [D. C.]	1480 Harvard St.
Gardner, Ella, [D. C.]	3367 18th St.
†Gatchell, Raymond, [D. C.]	3209 19th St.
Gates, Bess M., [Cal.]	9 5th St. S.E.
*Geiger, Mary, [D. C.]	229 East Capitol St.
Geissler, George P., [D. C.]	1111 11th St.
Glascok, Fannie E., [D. C.]	3564 11th St.
Glavis, Evelyn, [D. C.]	1712 H St.
Glenn, Daisy Marie, [Wyo.]	Moulton Apt.
Goddard, Verz R., [D. C.]	1324 Monroe St.
Goforth, Herndon Ware, [D. C.]	2112 F St.
†Goldfain, Samuel, [Colo.]	1314 13th Street
†Gollusch, Clarence, [Wis.]	464 Massachusetts Ave.
Gonzales, Jose M., [P. R.]	2501 14th St.
Gordon, Barnett D., [Mass.]	914 Massachusetts Ave.
*Gordon, John J., Jr., [Ohio]	1103 17th St.
Gorman, Clyde D., [D. C.]	1211 Euclid St.
*Gray, Shirley E., [Ill.]	1742 Riggs Pl.
Greene, Elsie, [Utah]	Alabama Apt.
†Greenup, Nell Blanche, [Mo.]	1450 Newton St. N.E.
†Greenwald, Isadore Louis, [Colo.]	418 Columbia St.
*Gridley, Carolyn B., [Mich.]	1421 Columbia Rd.
Griffiths, Bertha L., [N. J.]	1729 Church St.
Griffith, Virginia R., [D. C.]	509 11th St.
†Grim, Mabel Alice, [Wash.]	602 21st St.
*Grimm, Karl M., [Md.]	1819 F St.
*Gross, Daniel John [Iowa]	1 Dupont Circle

*Gross, Mary E., [D. C.]	1838 Calvert St.
*Gurevich, Louise J., [D. C.]	2373 Champlain St.
Hacker, Bernadette, [D. C.]	1815 Lamont St.
†Halsted, Jess, [Wis.]	Y. M. C. A.
*Hamilton, Louise M., [Cal.]	2617 14th St.
Hannafin, Loretta Alice, [Mass.]	45 D St. S.E.
†Hannoch, Herbert J., [N. J.]	Bureau of Efficiency
†Hanson, Ruth, [Mich.]	1331 K St.
Harkins, Bessie E., [Kan.]	1719 13th St.
†Harris, Sophia Vogt, [D. C.]	1669 Columbia Rd.
*Harsell, W. S., [D. C.]	114 Anacostia Ave.
Hartigan, Charles Conway, [D. C.]	2805 P St.
Hastings, Edna E., [D. C.]	905 B St. N.E.
Hayes, Murray O., [D. C.]	719 A St. N.E.
†Heiman, Herbert J., [Okla.]	1444 Belmont St.
Helander, Gunhild S. A., [D. C.]	1313 K St.
†Henn, Carl L., [D. C.]	3114 19th St.
†Henry, Cora Lee, [N. C.]	2140 N St.
*Herron, Lillian Y., [D. C.]	1706 Oregon Ave.
Herzmark, Rebecca, [D. C.]	1631 Newton St.
Hetz, Augusta H., [Mich.]	1466 Rhode Island Ave.
Hill, Ira B., [N. C.]	1247 6th St. S.W.
Hinckel, Anna Agnes, [D. C.]	119 C St. S.E.
†Hodgkins, George Wilson, [D. C.]	1830 T St.
A.B., 1915, A.M. 1916, George Washington University	
*Hokanson, Alexander L., [Ill.]	The Sherman Apt.
†Holland, Silvanus Miller, [D. C.]	1010 Euclid St.
*Hollingsworth, Sidney Pierce, [D. C.]	1364 Girard St.
Holper, Jacob N., [Conn.]	1017 12th St.
†Horn, Thomas S. A. [Mo.]	1644 Newton St.
Hoult, Geneva F., [D. C.]	1401 Massachusetts Ave.
Hullfish, Dorothy Saxman, [D. C.]	2118 First St.
*Hundley, James Curry, [D. C.]	326 11th St. N.E.
*Hynson, Marguerite W., [D. C.]	2001 16th St.
*Ingels, Clarence W., [Cal.]	1014 15th St.
Jacobs, Charlotte R., [D. C.]	1502 Meridan St.
*Jacobs, Rose Gell, [D. C.]	Octavia Apts.
*Jeffries, Emily, [D. C.]	1214 C St. N.E.
Jelleff, Eleanor Porter, [D. C.]	3505 Macomb St.
*Jewett, Thomas Hardin, [D. C.]	1832 Ontario Pl.
Johnson, Catherine K., [D. C.]	2108 16th St.
†Johnson, Gladys W., [D. C.]	1223 K St.
†Joyce, Francis W., [Pa.]	George Washington Hospital
Kauffman, Harvey Earl, [Pa.]	1106 16th St.
Kettner, Mary Morgan, [Cal.]	1800 K St.
†Khan, Mohsen, [Persia]	1613 R St.
Kislink, Rose, [D. C.]	2474 Ontario Rd.
*Kistler, Merle D., [Kan.]	2317 Pennsylvania Ave.
†Knock Franklin C., [D. C.]	3423 14th St.
*Koestwisher, Marie Antoinette, [N. Y.]	1809 I St.
LaManna, Thomas, [N. Y.]	1440 Rhode Island Ave.
*Lamb, Franklin, [N. J.]	1827 Corcoran St.
Lane, William F., [D. C.]	1352 Columbia Rd.
*Larrabee, Louise, [D. C.]	1018 Vermont Ave.
Larson, Roy W., [D. C.]	1806 Riggs Pl.
†Lazaro, Mary, [La.]	Falkstone Courts
*Lea, Lida, [Ark.]	1426 M St.

Lewis, Christine M., [Conn.]	508 East Capitol St.
*Lewis, Lemuel A., [N. Y.]	1914 Pennsylvania Ave.
Light, Margaret Louise, [Pa.]	926 17th St.
†Lipps, Nelle Gertrude, [W. Va.]	1324 Euclid St.
Lloyd, Walter Paul, [Mich.]	3114 19th St.
*Lott, Elizabeth Margaret, [D. C.]	1532 V St. S.E.
Love, Ellen Lane, [D. C.]	3748 McKinley St., Chevy Chase, D. C.
McArthur, Lucille Smith, [Ore.]	1801 16th St.
McClintock Laura Madeline, [Pa.]	Bureau of Fisheries
McConnell, Hannibal Owens, [Texas.]	117 C St. N.E.
McCormick, J. D., [D. C.]	1377 North Carolina Ave.
†McDonald, Ethel, [Wash.]	602 21st St.
*McDonough, Jos. Bernard, [N. Y.]	1101 K St.
*McElfresh, Ruth M., [D. C.]	1203 Girard St.
*McEwan, Eula D., [Ill.]	U. S. National Museum
†McFall, John Coulter, [D. C.]	1375½ Pennsylvania Ave. S.E.
†McGehee, Mary, [Ala.]	714 Allison St.
Macatee, Robert Berry, [Va.]	1802 M St.
*MacCartney, Margaret J., [D. C.]	The Highlands
MacDonald, M. Josephine, [Mass.]	1130 12th St.
MacIntosh, Lulu M., [D. C.]	821 North Carolina Ave., S.E.
†Magnuson, Harry P., [Neb.]	1518 R St.
*Magoffin, Dorothy, [D. C.]	1615 Florida Ave.
Maloney, Emma Jane, [D. C.]	The New Berne
*Manning, Harold G., [Mass.]	702 19th St.
†Maroney, Winifred Regina, [Pa.]	1761 Columbia Rd.
*Marquart, Marie T., [D. C.]	Navy Yard
*Martin, Benjamin Y., [D. C.]	57 T St. N.E.
Mathis, Cornelia I., [D. C.]	319 7th St. N.E.
Matthews, Annabelle, [D. C.]	2120 P St.
*Maxam, Mary Agnes, [D. C.]	1749 Park Rd.
†Melton, Jesse E., [N. Dak.]	133 E St. N.W.
†Menzel, Margaret L., [D. C.]	1920 G St.
Meyer, Ruth Alma, [D. C.]	20 Bryant St.
Middleton, Isabel, [D. C.]	1509 13th St.
Mills, Elizabeth Butler, [Mich.]	1605 Hobart St.
Miner, Helen, [Ohio]	1613 Irving St.
Mirick, Charlotte B., [D. C.]	1638 R St.
Mirick, Edith G., [D. C.]	1638 R St.
†Mirth, Dorothy E., [N. Y.]	314 10th St. N.E.
Moore, Frank D., [N. J.]	1332 15th St.
†Moore, Raymond Wheatley, [Md.]	Kensington, Md.
Morgan, Grace Maude, [D. C.]	629 New Jersey Ave.
Murphy, Anna B., [D. C.]	1103 10th St.
*Murto, Mary F., [D. C.]	619 6th St. N.E.
*Mustain, Gertrude G., [D. C.]	2120 G St.
Nelson, Ina Forest, [W. Va.]	1308 Belmont St.
Nelson, James Louis, [Ariz.]	2013 H St.
*Nelson, Norman J., [N. Dak.]	2524 17th St.
*Nelson, Teckla, [Utah]	1437 Clifton St.
Neumeyer, Helen A., [D. C.]	615 3d St.
*Newcomb, Irving B., [D. C.]	3406 17th St.
Nichol, Harry G., [Tenn.]	723 Dept. Com. Bldg.
Nielsen, George L., [Utah]	707 20th St.
Niemeyer, Ernestine H., [D. C.]	1708 Lawrence St. N.E.
†Norvell, Samuel Johnson, [Texas]	1103 6th St.
*Norman, Caroline B., [Miss.]	916 17th St.

Nyman, Hazel L., [D. C.].....	1636 16th St.
†Omeltchenko, Eugene, [Russia].....	1634 S St.
*Oseland, Zimri C., [Ind.].....	2013 H St.
Overby, M. E. Ruth, [Wis.].....	1123 13th St.
*Pankopf, Raymond Albert, [Minn.].....	808 19th St.
Parker, Arthur S., [D. C.].....	706 Irving St.
Parker, Blanche Kennon, [D. C.], 53 Takoma Ave., Takoma Pk., D. C.	
†Paton, Dorothy Elizabeth, [Mich.]..	Livingston Heights, Rosslyn, Va.
Paxton, Mary Annabel, [Va.].....	Cherrydale, Va.
Peifer, Gertrude, [Ill.].....	The Laclede
Peirce, Lottie M., [Md.].....	229 Pennsylvania Ave. S.E.
†Peterson, A. A., [D. C.].....	Navy Department
†Phillips, Dorothy, [Ill.].....	64 Randolph Pl.
*Powell, Elizabeth Frances, [Md.].....	Chevy Chase, Md.
Preinkert, Alvina M., [D. C.].....	1511 L St.
Pyne, Warner Charles, [N. Y.].....	1521 O St.
*Rappaport, Samuel, [D. C.].....	412 11th St. N.E.
Rawlings, Julia May, [D. C.].....	The Marlborough
*Reimer, Madeline, [D. C.].....	1324 L St.
Reitzel, Albert E., [N. C.].....	1311 L St.
Reyes, Irineo J., [P. I.].....	House Office Bldg.
*Reynolds, Clara B., [D. C.].....	718 19th St.
Rhoads, Max, [Va.].....	1726 P St.
*Richards, Marie deBeauvais, [D. C.].....	1830 16th St.
*Riggles, J. Richard, Jr., [D. C.].....	1328 Fairmont St.
Rittase, Roger M., [O.].....	1102 L St.
Rose, Ludora L., [D. C.].....	1108 L St.
Ross, Ruth Elizabeth, [O.].....	919 O St.
Runbeck, Margaret Lenora, [D. C.].....	121 11th St. S.E.
*Runkle, Lilian Gladys, [D. C.].....	1110 Columbia Rd.
Salsbury, Maurice E., [O.].....	905 N St.
Sanders, Ella Neal, [D. C.].....	1800 K St.
*Saperstein, Morris, [N. J.].....	1214 I St.
†Saucke, Alma M., [Kan.].....	1710 G St.
Scheer, William I., [D. C.].....	1304 V St.
Scheirer, George A., [N. Y.].....	1822 New Hampshire Ave.
Schelski, Laura V., [Ind.].....	3319 17th St.
Schmitt, Joy M., [Md.].....	Ridgewood Ave, Chevy Chase, Md.
*Schneider, Florence, [D. C.].....	The Cairo
Schwede, Louise A., [Wisconsin].....	1345 Q St.
Scott, Fenby Warden, [Mo.].....	2100 H St.
*Scott, Sara L., [Penna.].....	9 5th St. S.E.
*Selden, Charles Albert, [D. C.].....	Cosmos Club
*Shaw, Erma, [D. C.].....	2029 Connecticut Ave.
Sheffield, Edgar Lee, [Idaho].....	1740 K St.
*Shelley, Elizabeth, [D. C.].....	1734 Corcoran St. N.W.
Simpson, Mary Kirk, [Va.].....	1212 34th St.
*Skelton, Gertrude, [Mich.].....	1324 Massachusetts Ave.
Skliar, Robert, [D. C.].....	1116 New York Ave.
Smith, Dee B., [Md.].....	Hyattsville, Md.
*Smith, Jonas Milton, [N. Y.].....	3658 Warder St.
†Smith, Walter Henry, [Pa.].....	Y. M. C. A.
Snowden, Elizabeth Victoria, [D. C.].....	1818 Ingleside Ter.
Sowersby, Ora, [D. C.].....	922 B St. S.W.
†Spangler, Frank LeRoy, [Kansas].....	3543 10th St.
Spears, Leo L., [Fla.].....	New Berne Apt.
Speed, Mary M., [D. C.].....	1906 Florida Ave.

*Speich, Anna, [Neb.]	Post Office Bldg.
Spofford, Harriet C., [Va.]	Ordinance Bureau, War Dept.
Stanton, Ruth E., [D. C.]	4415 Georgia Ave.
Starr, Relda A., [D. C.]	120 Randolph Pl.
*Steerman, Blanche, [D. C.]	2610 Woodley Place
Stein, Hattie, [D. C.]	The Concord
Stern, William F., [Ill.]	2134 F St.
*Stinson, Ruth G., [Mass.]	U. S. Bureau of Labor Statistics
*Stockett, William E. Jr., [D. C.]	923 North Carolina Ave.
*Stovall, Bates M., [D. C.]	The Cecil
Stuard, Mabel E., [D. C.]	2118 I St.
Sturtevant, Georgia Anna, [D. C.]	2233 Q St.
Sullivan, James Francis, [Mass.]	502 First St. S.E.
Swank, Ethel G., [D. C.]	1367 Spring Rd.
*Sweeney, Richard, H., [Md.]	1233 Lawrence St.
*Sweet, George Henderson, [D. C.]	The Fairfax
Tanis, Richard Cornelius, [N. J.]	1826 M St.
*Taylor, Elizabeth Moore, [D. C.]	Takoma Park, D. C.
Taylor, Elsie May, [Mass.]	608 Massachusetts Ave. N.E.
Tefft, Elsie May, [D. C.]	715 19th St.
Tepper, Lina Sylvia, [Mass.]	904 Westminster St.
Thomas, Pauline M., [D. C.]	12 10th St. N.E.
Thompson, Roy A., [Minn.]	2134 F St.
Thompson, W. Leonard, [D. C.]	402 Cavanaugh Courts
Toner, Carrie Estelle, [D. C.]	1814 Ingleside Terrace
Townsend, Leah B., [D. C.]	The Portner
Trimble, Robert S., Jr., [D. C.]	722 18th St.
Tripp, Helen Josephine, [Mass.]	2329 N St.
Trundle, Lewis S., [D. C.]	1409 Webster St.
Tuben, Gilbert, [Wash.]	225 First St. N.E.
†Tyssowski, Mary R., [D. C.]	2019 Columbia Rd.
†Umhau, Christine K., [D. C.]	3305 16th St.
Visel, Gladys O., [Ga.]	1774 U St.
Volstead, Laura E., [Minn.]	The Brighton
*Walker, Anne E., [D. C.]	1412 Chapin St.
Wall, Adelaide Dorothy, [D. C.]	4009 14th St.
Walsh, Grace M., [N. Y.]	429 Kenyon St.
Waranow, Charles, [Mass.]	1428 N St.
*Warner, Wellman J., [Cal.]	746 Park Rd.
†Washburn, George Ellery, [Mass.]	3459 Macomb St.
†Watkins, Frank T., [Utah]	Wardman Courts
†Watson, Ella B. Bartlett, [D. C.]	3901 Wisconsin Ave.
Watson, Robert C., [D. C.]	McGill Bldg.
Watt, Lucy, [Penna.]	1108 L St.
Watts, William Carleton, [D. C.]	1511 20th St.
*Whalen, Marie Brijetta, [N. Y.]	208 E St. N.E.
Whaley, Luella R., [W. Va.]	440 4th St. N.E.
Wham, Fred L., [D. C.]	1741 Lanier Pl.
*Whitney, Anice L., [D. C.]	4010 5th St.
Whyte, Eunice, [D. C.]	935 M St.
*Wiker, Donald T., [D. C.]	1905 15th St.
*Wilkins, Andrew C., [D. C.]	Interstate Com.
*Willecox, Emma P., [D. C.]	The Thomas
*Williams, J. F., [D. C.]	2030 F St.
Willard, Roxana B., [D. C.]	1424 W St.
*Willis, Allen P., [Va.]	Rosslyn, Va.
Willis, Virginia Bullock, [Va.]	918 F St.

Windridge, Emma I., [Va.].....	Cherrydale, Va.
*Winningham, Alma M., [D. C.].....	2518 13th St.
Wolf, Rose, [D. C.].....	1819 15th St.
Wolt, Helen Josephine, [Neb.].....	1361 Euclid St.
†Wood, Richard F., [D. C.].....	3301 Highland Pl.
*Yamamoto, Zen, [Japan].....	Japanese Embassy
*Zehner, Harry, [N. Y.].....	2500 Pennsylvania Ave.

COLLEGE OF ENGINEERING

CANDIDATES FOR DEGREES

Data in parentheses represent course taken and the number of credits.

*Aaron, Jacob Henry, (Ch.E.; 0), [D. C.].....	1322 Florida Ave. N.E.
Aman, Walter Frank, (E.E.; 34), [Md.].....	Mt. Rainier, Md.
Anderson, John Augusta, Jr., (E.E.; 0), [D. C.].....	1344 A St. S.E.
*Babcock, Harry Maxwell, (Ch.E.; 0), [Pa.].....	1917 G St.
Bacas, Aris Harry, (E.E.; 0), [Greece].....	1929 14th St.
Badger, Cecil Hammond, (Chem.; 85), [Pa.].....	509 4th St.
*Bailey, William Hiram, (Chem.; 19), [Texas].....	2106 1st St.
Barclay, Clara Clark, (Chem.; 19½), [Md.].....	Riverdale, Md.
*Barnes, George Eric, (E.E.; 4), [D. C.].....	56 T St.
Bauskett, Helen V., (Chem.; 10), [D. C.].....	1201 Girard St.
Beck, Cornelius Douglas, (Chem.; 0), [Ind.].....	2119 F St.
Bender, Isaac I., (Ch.E.; 76), [Pa.].....	1133 Columbia Rd.
Berryman, Nalls, (Chem.; 6), [D. C.].....	40 Chestnut St. Takoma Park, D.C.
*Bertenshaw, William Herbert, (Chem.; 0), [Mass.].....	1307 R St.
*Bessling, Edward Norwood (E.E.; 16), [D. C.].....	451 Massachusetts Ave.
*Biggs, Warren Otis, (M.E.; 0), [D. C.].....	1730 Euclid St.
Biggs, Zeno Alvin, (E.E.; 73), [Md.].....	1730 Euclid St.
Birch, Alvin Lloyd, (C.E.; 0), [D. C.].....	1635 R St.
*Bisset, George, (E.E.; 0), [D. C.].....	3301 Lowell St.
Blakely, Charles Francis, (C.E.; 68), [Neb.].....	Y. M. C. A.
*Blazier, Luther E., (Chem.; 0), [D. C.].....	1314 11th St.
Blosk, Edwin Arthur, (M.E.; 0), [D. C.].....	2215 N St.
*Boyd, Joseph Reginald, (E.E.; 24), [D. C.].....	1360 Parkwood Pl.
Brady, John Bernard, (M.E.; 66), [Md.].....	508 Warwick Pl.
*Brandes, Clarence Alfred, (C.E.; 20), [D. C.].....	2032 16th St.
Brauner, Ralph Herrman, (E.E.; 0), [D. C.].....	Greenvale, Brookland, D. C.
†Bunn, Clinton L., (Ch.E.; 0), [Mich.].....	118 10th St. N.E.
Burner, Charles Alexander, (C.E.; 4), [D. C.].....	1111 Irving St.
†Burneston, Joseph Lee, (C.E.; 0), [D. C.].....	933 E St. S.W.
Burton, Lawrence Elmer, (Chem.; 64), [Ind.].....	612½ 22nd St.
Burton, Oliver E., (Chem.; 17½), [W. Va.].....	1422 11th St.
*Bushland, S. A., (Chem.; 16), [Wis.].....	1313 K St.
Byrne, John F., (C.E.; 0), [R. I.].....	1507 Vermont Ave.
Came, Carleton Lord, (Chem.; 100), [N. H.].....	1415 Harvard St.
Campbell, Arthur B., (E.E.; 124), [D. C.].....	126 Rhode Island Ave. N.E.
Campbell, Richard Dodge, (E.E.; 4), [D. C.].....	42 Rhode Island Ave. N.E.
Carey, John Joseph, (Arch.; 28), [D. C.].....	1703 N. Capitol St.
Carl, Frederick, Jr., (Chem.; 0), [D. C.].....	1842 Ontario Pl.
Carroll, Randolph, (C.E.; 0), [D. C.].....	2335 Ashmead Pl.
Carter, Amy M., (Chem.; 56), [Ill.].....	732 P. O. Bldg.
*Chamberlain, Guy Carleton, (C.E.; 59), [N. Mex.].....	1408 Girard St.
*Chamberlain, Herbert Avery, (C.E.; 0), [D. C.].....	1502 Emerson St.
*Clark, Robert L., (M.E.; 5), [Pa.].....	1865 Park Rd.
Clarkson, Harry Irving, (M.E.; 8), [D. C.].....	909 7th St. S.E.

- Cole, Francis Gruelle, (M.E.; 26), [D. C.].....1900 8th St.
 Coleman, Clark Weaver, (C.E.; 7), [D. C.].....1340 Fairmont St.
 Conboye, William Thomas, (Arch.; 59½), [Cal.].....64 U St..
 *Conry, John G., (C.E.; 4), [D. C.].....1343 30th St..
 Corey, George Holton, (Chem.; 0), [Pa.].....526 22nd St..
 Cribbs, John C., (M.E.; 20), [Mich.].....Department of Commerce.
 Crist, Marian Brownell, (Arch.; 55), [D. C.].....1965 Biltmore St..
 Cross, Fred Sylvester, (Chem.; 34), [W. Va.].....1100 Vermont Ave..
 Cruickshanks, Benjamin Carpenter, (M.E.; 92), [D. C.] 1336 Fairmont St..
 Daidy, George Augustine, (Arch.; 56), [Mass.].....1682 Irving St..
 Dale, Lloyd Emerson, (Chem.; 0), [Neb.].....1007 13th St..
 *Davis, Ray D., (Ch.E.; 0), [D. C.].....327 17th St. S.E..
 Davis, Thomas Allen, (Ch.E.; 0), [D. C.].....635 I St. S.W..
 Davis, Watson, (C.E.; 114), [D. C.].....900 11th St. S.E..
 *DeFrees, Raymond G., (C.E.; 34), [Iowa].....2425 N. Capitol St..
 Degnan, George A., (M.E.; 105), [Pa.].....450 M St..
 *Delany, James Leroy, (M.E.; 26), [D. C.].....600 Park Rd..
 *DeMay, John Andrew, (M.E.; 0), [Pa.].....125 4th St. S.E..
 Dement, George Earl, (M.E.; 52), [D. C.].....937 5th St. N.E..
 *Dempsey, James Bryan, (M.E.; 10), [Kansas].....Apt. 20, 2224 F St..
 *Dillard, Samuel Moore, (Arch.; 3), [N. C.].....1739 P St..
 B.S. in Architecture, 1913, Alabama Polytechnic Institute.
 *Disney, Lindsey Pettit, (M.E.; 33), [D. C.].....1212 B St. S.E..
 *Dohoney, Ludorph Aloysius, (M.E.; 0), [Md.].....17 Michigan Ave. N.E..
 Dutton, Harold Harrison, (E.E.; 33), [D. C.].....1721 Kilbourne Pl..
 Eddins, Robert E., (E.E.; 10), [Ala.].....22 T St..
 Edwards, Thomas Rives, (Arch.; 51), [D. C.].....243 10th St. N.E..
 Ehrman, Herbert Allan, (M.E.; 107), [Md.].....1435 Clifton St..
 English, Eugene Barclay, (Chem.; 6), [D. C.].....25 Grafton St., Chevy Chase, Md..
 Eno, Arthur R., (M.E.; 25), [D. C.].....1330 U St. S. E..
 Erbach, John Webster, (Chem.; 6), [D. C.] 713 Massachusetts Ave. N. E..
 *Ergood, Allen Monroe, (Ch.E.; 6), [D. C.].....6223 9th St..
 Faris, Robert L., Jr., (Chem.; 38½), [D. C.].....1346 Harvard St..
 Farkash, Edward, (C.E.; 32), [N. Y.].....1522 U St..
 Fedde, Walter Carl, (Chem.; 16), [Colo.].....2917 13th St..
 Fihe, Albert Joseph, (Ch.E.; 51), [Ky.].....2307 Washington Circle
 B.A., 1906, St. Xavier College.
 Filgate, James Cassell, (C.E.; 0), [D. C.].....2451 18th St..
 *Filgate, John Thomas, (M.E.; 28), [D. C.].....2451 18th St..
 France, Ramon Denison, (M.E.; 24), [Tenn.].....405 M St. N.E..
 Friedman, Solomon, (C.E.; 0), [D. C.].....447 7th St. S.W..
 *Funkhouser, Charles Munroe, (C.E.; 64), [N. J.].....1628 K St..
 Gardner, Hannah Louise, (Chem.; 37½), [D. C.].....3367 18th St..
 *Garman, George Guy, (E.E.; 0), [Pa.].....2031 2nd St. N.E..
 Garrison, Richard Roddey, (M.E.; 0), [D. C.].....310 6th St. S.E..
 Gartside, Frank Tyler, (C.E.; 40), [Md.].....1729 New York Ave..
 Gebhart, Arthur, (Chem.; 32½), [Pa.].....903 13th St..
 Gerber, Simon, (Chem.; 50), [D. C.].....1339 H St..
 Gersdorff, Wilbur A. J., (Chem.; 94), [D. C.].....1825 N. Capitol St..
 *Gillespie, Rees Alexander, (C.E.; 0), [Md.].....Fort Washington, Md..
 Girouard, Philias Henry, (E.E.; 0), [R. I.].....426 C St. N.E..
 Glycofrides, Eustace, (Chem.; 0), [D. C.].....922 9th St..
 Gonzalez, William Alexander, (Chem.; 14), [N. Y.].....200 E St..
 *Gooch, Robert Charles, (Chem.; 18), [D. C.].....1215 Irving St. N.E..
 Gordon, Daisy, (Chem.; 39), [Maine].....713 19th St..
 *Gordon, Maurice, (M.E.; 30), [N. H.].....2135 F St..

- *Goshau, Irl R., (Chem.; 0), [Wis.]..... 131 K St.
 *Green, Edgar Melbourne, (M.E.; 0), [D. C.]..... 82 V St.
 Hamilton, Bonifant, (Chem.; 97), [Texas]..... 3135 24th St., N.E.
 *Hance, Jr., William Slocum, (C.E.; 89), [D. C.]..... 2031 Park Rd.
 Harding, Raymond Barton, (E.E.; 60), [Va.]..... 626 G St. S.W.
 Hardy, Samuel Walker, (E.E.; 0), [D. C.]..... 119 5th St. N.E.
 Harris, W. Wilen, (M.E.; 4), [D. C.]..... 1756 Church St.
 Harrison, Thomas Randolph, (E.E.; 127), [Va.]..... 3515 14th St.
 Harsch, Raymond, (C.E.; 45), [Ohio]..... 1 Girard St. N.E.
 *Hasselbush, William Andrew, (M.E.; 4), [D. C.]..... 1827 6th St.
 Hauser, Leon Aaron, (C.E.; 117), [N. J.]

Interstate Commerce Commission

- *Hayes, Wilfred Henry, (M.E.; 0), [Mass.]..... 2118 G St.
 Heald, Roy Haines, (M.E.; 103), [D. C.]..... 3515 Holmead Pl.
 Helferich, Elmer Runyan, (M.E.; 0), [D. C.]..... 1134 12th St.
 Herron, Donald Breen, (C.E.; 0), [Ill.]..... 1706 Oregon Ave.
 Hill, Hugh Palmer, Jr., (C.E.; 4), [D. C.]..... 719 D St. S.E.
 *Hiller, Samuel, (Chem.; 24), [N. Y.]..... 908 M St.
 Hillig, Fred H., (Chem.; 0), [Ill.]..... 24 Grant Pl.
 Hinsch, George Albert, Jr., (Chem.; 0), [N. Y.]..... 1916 16th St.
 Hockman, Herman G., (E.E.; 17), [Kan.]..... 2119 F St.
 *Howard, Frank, (E.E.; 0), [D. C.]..... 627 E St.
 †Hubbard, Mable Estelle, (Chem.; 10), [D. C.]

112 Quincey St.. Chevy Chase.

- Hubel, Nelson E., (Ch.E.; 4), [Mich.]..... 1420 R St.
 Hufnagel, Harry Miller, (E.E.; 4), [D. C.]..... 1311 6th St.
 Hummer, Aubrey Eugene, (Ch.E.; 58), [D. C.]..... 1131 8th St. N.E.
 Hummer, J. Earl, (Ch.E.; 28), [D. C.]..... 1131 8th St. N.E.
 Hunter, Paul Benwood, (Ch.E.; 8), [D. C.] Route No. 2, Alexandria, Va.
 *Huse, Emery, (Chem.; 38), [Mass.]..... 1238 Monroe St. N.E.
 *Jenkins, Ralph Raymond, (M.E.; 4), [D. C.]..... 1362 Newton St.
 Johnson, Charles John Augustus, (M.E.; 32), [Va.]..... Clarendon, Va.
 *Johnson, Clair Villiers, (Ch.E.; 45), [Iowa]..... 523 Randolph St.
 Kalupy, Harry Harold, (E.E.; 42), [La.]..... 2020 G St.

LL.B., 1914, Georgetown University.

- †Kampe, Albert Henry, (C.E.; 0), [Mich.]..... 1002 M St.
 *Kaufman, Anton, (M.E.; 126), [D. C.]..... 1215 Girard St.
 B.S. in Naval Architecture, 1917, University of Michigan.
 Keating, Michael Joseph, (M.E.; 0), [N. J.]..... 2840 26th St. N.E.
 *Kenney, John Edward, (Chem.; 0), [Maine]..... 1334 Fairmont St.
 *Keogh, Howard George, (Chem.; 0), [Mass.]..... 119 M St.
 *Kiesel, Helen, (Chem.; 0), [Ky.]..... 227 East Capitol St.
 Kirby, Walter J., (C.E.; 0), [Ohio]..... 912 19th St.
 Kisseleff, Charles William, (C.E.; 37), [D. C.]..... 305 V St. N.E.
 Krehbiel, Elmer Harold, (Chem.; 6), [D. C.]..... 1016 9th St. N.E.
 Kreig, Alfred Charles Edward, (M.E.; 24), [D. C.]..... 3717 Georgia Ave.
 Laddon, Misha, (Chem.; 36), [D. C.]..... 237 H St. N.E.
 Lambrecht, Herbert Francis, (Ch.E.; 0), [N. J.]..... 406 1st St. S.E.
 Lange, William Endres, (M.E.; 28), [D. C.]..... 1116 Girard St.
 Lanigan, Arthur Loyola, (E.E.; 8), [D. C.]..... 122 Bryant St.
 Lapish, Joe Harry, (Chem.; 4), [D. C.]..... 57 Quincey Pl. N.E.
 *Latimer, Thomas Mortimer, (C.E.; 0), [Md.]..... Hyattsville, Md.
 LeDuc, Percy Walbourne, (Chem.; 61), [D. C.]..... 3820 4th St.
 Lenovitz, Jacob Leon, (C.E.; 76), [Md.]..... 2927 M St.
 *Levy, Harry, (Chem.; 84), [D. C.]..... 806 21st St.
 Linden, Bernard A., (Chem.; 4), [N. Y.]..... 2148 F St.
 Lindsey, Irving, (Chem.; 12), [Va.]..... War College

- Lippitt, Edward Gardner, (Arch.; 28), [D. C.]..... 125 11th St. N.E.
 Littlehales, James Hill, (Ch.E.; 0), [D. C.]..... 2132 LeRoy Pl.
 Llompert, Jose A., (Ch.E.; 0), [D. C.]..... 1329 Columbia Rd.
 Lloyd, Daniel Boone, Jr., (C.E.; 0), [Md.]..... 1842 California St.
 Long, Stewart Davis, (E.E.; 0), [Md.].....
 Office, Chief of Engineers War Department.
 McAllister, Russell Naylor, (C.E.; 0), [D. C.]..... 2501 14th St.
 McCoy, John Scott, (Chem.; 37), [D. C.]..... 312 McLean Ave. S.W.
 McCrea, Walter Dale, (E.E.; 0), [D. C.]..... 2503 Wisconsin Ave.
 McEntee, Albert Arthur, (C.E.; 82), [Ill.]..... 2124 P St.
 *McIntyre, Joseph D., (Chem.; 29), [D. C.]..... 2209 M St.
 Mahoney, John, (Chem.; 26), [Neb.]..... 1313 K St.
 Maier, Edward Leonard, (C.E.; 0), [D. C.]..... 2200 Minnesota Ave. S.E.
 Marks, Frank Henry, (Ch.E.; 23), [D. C.]..... 1002 Fairmont St.
 Marston, Lester Frederick, (E.E.; 0), [Mich.]..... 1527 Rhode Island Ave.
 Martin, Frank Whitecher, (M.E.; 74), [D. C.]..... 60 M St.
 Maryman, J. Edgar, (Chem.; 87), [D. C.]..... 1304 Emerson St. N.E.
 Maxson, Louis Archer, (E.E.; 80), [Md.]..... 620 North Carolina Ave. S.E.
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 *Mitchell, J. Walter, (E.E.; 0), [Md.]..... 706 Rock Creek Church Rd.
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 M.A., 1911, Oxford University.
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 Murray, Charles N., (Chem.; 24½), [D. C.]..... War Department
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 A. B., 1917, George Washington University
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 Phar. D., 1916, George Washington University
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 B.S., 1909, Cooper Union.....53 R St. N.E.
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 Hooper, Albert G., [Me.].....1669 Columbia Rd.
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 *Johnson, Robert Harris, [Pa.].....1829 19th St.
 Kaiser, Edward J., [D. C.].....Florence Court
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 B.S., Architecture, University of California.....1917 G St.
 Keating, William J. [N. Y.].....1701 First St. N.E.
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 *Lambrecht, Clarence Elmer, [Wash.].....2116 G St.
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 Lew, Albert Abram, [Ill.].....3601 13th St.
 *Lewis, Cuthbert Austin, [D. C.].....Lofton, Robert Elwood, [D. C.]
 B.A., 1908, DePauw University.....2838 27th St.
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 Maxim, Ezra N., [Mass.].....405 A St. S.E.
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Salzer Martin, [N. Y.].....226 N. St.
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†Starrells, Abram, [Pa.].....2045 Park Rd.
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tucky; LL.M., 1917, George Washington University
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 Maxson, Evelyn Juliet, (43), [D. C.].....647 East Capitol St.
 McCaffrey, Lasalia, (32), [Iowa].....28 2d St. N.E.
 McCarty, Cora, (74), [D. C.].....2106 F St.
 McClintock, Dorothy Pauline, (54), [Pa.].....The Octavia, Apt. 30
 *McGraw, Helen Marie, (16), [Conn.].....1248 10th St.
 Mortimer, Florence Craigie, (37), [D. C.].....1141 New Hampshire Ave.
 Mortimer, Lucie Elizabeth, (48), [D. C.].....1141 New Hampshire Ave.
 *Murray, Harriet Lenore, (48), [D. C.].....120 3d St. N.E.
 Murray, Mary Frances, (92), [D. C.].....1324 A St. S.E.
 *Myers, Elizabeth Howell, (0), [Ill.].....118 Maple Ave., Tak. Pk., D. C.
 Nichols, Helen Gilman, (50), [D. C.].....2604 University Pl.
 *O'Brien, Margaret Rose, (64), [D. C.].....1002 4th St. N.E.
 Offutt, Viola, (71), [Md.].....Bethesda, Md.
 O'Hara, Elizabeth, (74), [D. C.].....135 S St.
 *Paddock, Marion, (0), [Minn.].....1307 R St.
 Park, Frances Louise, (61), [Mich.].....807 Taylor St. N.W.
 Payne, Lilly May, (74), [Va.].....Ballston, Va.
 Perlman, Rebecca, (0), [D. C.].....608 Louisiana Ave., N.W.
 Phillips, Ruth Sutherland, (30), [D. C.].....87 Eastern Ave., Takoma Pk., D. C.

Pollock, Laura Kersey, (48), [Va.]	Victoria Apt., 140 Clifton St.
Popenoe, Herbert, (0), [Cal.]	511 11th St.
Prentiss, Margaret Joanna, (64), [D. C.]	1720 Oregon Ave.
Randall, Bernice, (64), [D. C.]	2035 F St.
Randall, Elizabeth, (44), [D. C.]	903 10th St.
Reed, Margaret Davis, (60), [D. C.]	2809 14th St.
Reeve, Laura Washburn, (86), [D. C.]	1626 19th St.
Reeves, Ruth Elizabeth, (0), [Va.]	Falls Church, Va.
Rider, Dorothy, (58), [D. C.]	916 B St. S.W.
Ring, Gretchen, (34), [D. C.]	1317 L St.
Rogers, Mrs. Florence Hopkins, (58), [D. C.]	1200 18th St.
Rose, Mary Estelle, (95), [D. C.]	2963 Tilden St. N.W.
Sage, Lillian Warfield, (65), [Md.]	Rockville, Md.
*Saunders, Marguerite Josephine, (54), [D. C.]	64 Q St.
*Sawin, Edward Parker, (0), [Vt.]	1727 F St.
Scott, Pauline, (57), [D. C.]	156 13th St. S.E.
Selah, Miriam Hughes, (68), [D. C.]	17 3d St., N.E.
Sellers, Mrs. Stella C. R., (30), [Va.]	The Alabama, 11th and N
Sitler, Margaret Anne, (48), [D. C.]	417 11th St. N.E.
Smith, Margaret Mary, (44), [Md.]	Riverdale Md.
Speiser, Mary Elizabeth, (31), [D. C.]	226 8th St. S.E.
Stallings, Mildred Evelyn, (73), [D. C.]	1200 East Capitol St.
*Stefan, Emilie Bertha, (52), [D. C.]	5706 Georgia Ave.
Steger, Evelyn Mary, (100), [D. C.]	1906 Florida Ave.
Stewart, Elizabeth Tabb, (78), [Va.]	East Falls Church, Va.
Stewart, Lettie Ethel, (106), [D. C.]	2411 1st St.
Stewart, Mary, (2), [D. C.]	627 Maryland Ave. N.E.
Summy, Ethel, (115), [D. C.]	1623 R St. N.W.
*Tansill, Charles Callan, (120), [Tex.]	1260 Kearney St., Brookland, D. C.
A.B., A.M., and Ph.D., Catholic University of America.	
*Taylor, Bertha Elmore, (51), [D. C.]	1654 Euclid St.
Thomas, Mrs. Clara Ida, (48), [D. C.]	1313 Harvard St.
Thompson, Charles Newton, (59), [D. C.]	926 8th St.
Thorn, Lula Bassett, (48), [D. C.]	627 Maryland Ave. N.E.
Tonge, Catherine Mary, (48), [D. C.]	1410 Euclid St.
*Tracy, Thelma Marie, (0), [Utah]	2622 11th St. N.W.
*Trotter, Katherine Elizabeth, (55), [D. C.]	512 Rhode Island Ave. N.E.
Walker, Carol Louise, (57), [D. C.]	20 16th St. N.E.
Wallace, Florence Catherine, (54), [D. C.]	75 Randolph Pl.
Walter, Gertrude Elizabeth, (63), [D. C.]	623 East Capitol St.
*Wessells, Alice Cordelia, (50), [D. C.]	719 Webster St.
Weyman, Mollie Beers, (80), [D. C.]	1310 Columbia Rd.
Wheatley, Mary Elizabeth, (34), [Va.]	2138 F St.
Wiegand, Regina Sophia, (0), [D. C.]	824 6th St. S.W.
Williams, Harriet Robbins, (6), [Me.]	Alexandria Va., No. 2
Wiltberger, Eugenia Barnes, (70), [D. C.]	601 Taylor St.
Wolf, Hattie Mary, (36), [D. C.]	626 22d St.
Wright, Leonora, (0), [D. C.]	1433 T St.
Yoder, Bertha Alice, (101), [D. C.]	1225 Euclid St.

SPECIAL STUDENTS

Affleck, Florence Polkinhorn, [D. C.]	3817 Woodbey Rd.
Baldwin, Elizabeth Birth, [D. C.]	2804 27th St.
Barnsley, Effie Grace, [Md.]	Rockville, Md.
Beers, Anne, [D. C.]	3017 Rodman St.
*Birnie, Martha M., [D. C.]	1711 19th St.
A.B. 1915, A.M., 1916, George Washington University.	

Bradley, Mary, [Ga.]	2311 Ontario Rd.
Butts, Thomas Reed, [W. Va.]	208a Que St.
Clark, Alice Marie, [Md.]	8 Newland St., Chevy Chase, Md.
Davis, Adelaide, [Mass.]	213 C St. S.E.
*Dill, Mabel, [D. C.]	1852 Ingleside Terrace
*Ebert, Ottilia Adelaide, [D. C.]	808 19th St.
Hendley, Flora L., [D. C.]	1216 L St. N.W.
Huckabee, Henry Grady, [Ala.]	2018 F St.
Jones, Mary Winston, [Mo.]	1116 Vermont Ave.
*Magee, Lottie Pearl, [D. C.]	227 B St. N.E.
Meloy, Edith Willard, [D. C.]	1309 Emerson St.
Meloy, Isabelle R., [D. C.]	1309 Emerson St.
Robinson, Homer Lash, [O.]	1436 R St.
*Shelton, Sherman C., [O.]	609 New Jersey Ave.
Simon, Theresa M. (Mrs.), [D. C.]	1634 Riggs Pl.
Stromberger, Julia Bowie, [D. C.]	1325 Massachusetts Ave. S.E.
*Weston, Elbertine C., [D. C.]	3447 Oakwood Terrace
Williams, Ada May, [D. C.]	1006 Webster St.
Wright, Grace Viola, [D. C.]	The Montgomery
Zinssmeister, Grace Mary, [D. C.]	1364 Girard St.

SUMMER SCHOOL, 1917

Allen, Wallace B., [Md.]	Office Auditor, Navy
Allen, William B., [Ore.]	1906 G St.
Aman, John A., [Md.]	Mt. Rainier, Md.
Arjona, Carlos V., [P. R.]	2110 G St.
Ave-Lallemant, E. N., [Wis.]	707 20th St.
A.B., Northwestern College	
Badger, Cecil H., [Pa.]	509 4th St. N.W.
Bailey, Lillie Porter, [D. C.]	1513 8th St. N.W.
Baker, Wallace B., [Pa.]	326 F St. N.E.
Balcom, A. Hartwell, [Mass.]	The Earlington, Apt. 403
Barksdale, Mrs. Florence Muir, [D. C.]	1439 Girard St.
Barnes, Ruth E., [D. C.]	Benning, D. C.
Bartlett, L. George, [Pa.]	Y. M. C. A.
Baruch, Ismar, [Conn.]	631 H. St.
Ph.B. Brown University; M.A. Princeton University	
Beller, Sadie W., [D. C.]	235 1st St. N.E.
Bitman, Samuel, [N. Y.]	1017 10th St.
Blackwell, Jefferson D., [Tex.]	4518 15th St.
A.B., University of Missouri	
Blandford, Agnes C., [Md.]	220 8th St. S.W.
Blandford, Hannah M., [D. C.]	215 8th St. S.W.
Blazier, Luther E., [N. J.]	1314 11th St.
Bonnell, Ralph L., [Mich.]	1832 K St.
Bonnell, Russell Lincoln, [N. J.]	The Cairo
*Bowen, George L., [Kan.]	1628 K St. N.W.
Brill Rose, [D. C.]	2801 Georgia Ave.
Broome, Edwin W., [Md.]	Rockville, Md.
LL.B., 1917, George Washington University	
Burlingame, Annie E., [D. C.]	919 L St. N.W.
Bushland, S. A., [Wis.]	1313 K St.
Capper, Harry W., [Va.]	Post Office Box 1310
Cardwell, Annie M., [D. C.]	608 F St. N.E.
Carrington, Marjorie M., [N. Y.]	2131 Florida Ave. N.W.
Cartmell, Leon E., [Miss.]	502 B St. N.E.

Castillejo, Lino J., [P. I.].....	1748 P St.
Challice, Clara E., [D. C.].....	1789 Lanier Pl.
Cherrington, Edwin N., [O.].....	808 19th St. N.W.
Chu, King, [China].....	1916 G St.
Claveloux, Francis J., [D. C.].....	223 Rhode Island Ave.
Cohen, Mrs. Margaret M., [Ore.]...Fontanel Courts, 14th and Fairmont	
Colborn, Lena, [Pa.].....	1322 15th St. N.W.
Connelly, Mary, [D. C.].....	1438 S St. N.W.
B.S., George Washington University	
Cottrell, Casper L., [Pa.].....	2140 G St.
Crawford, Robert Brace, [Mo.].....	2219 California St. N.W.
Creim, Benjamin W., [Cal.].....	2140 G St.
Crockett, Bessie Lee, [D. C.].....	1617 Swan St.
Cushing, Harriet M., [D. C.].....	1629 Que St. N.W.
Daniels, Ruby A., [Md.].....	16 Carroll Ave., Takoma Pk., D. C.
Davis, David, [D. C.].....	1726 P St.
Davis, Watson, [D. C.].....	900 11th St. S.E.
DeGrange, Mark, [Pa.].....	1323 Delafield Pl.
DeHaas, Mrs. J. Anton, [Tex.].....	1628 Columbia Rd., Apt. 416
DeTar, Marion D. (Mr.), [Ind.].....	Y. M. C. A.
Dixon, Edna A., [D. C.].....	2013 Eye St. N.W.
Dixon, Edwin M., [N. J.].....	1736 G St.
Dooley, Lucile, [Tenn.].....	St. Elizabeth's Hospital
Ph.D., Clark University	
Earnshaw, William I., [D. C.].....	220 9th St. N.E.
English, Maude S., [D. C.].....	1926 Biltmore St.
Ergood, Allen, [D. C.].....	6223 9th St. N.W.
Espey, Emolyne, C., [D. C.].....	122 11th St. N.E.
Etheridge, Florence, [D. C.].....	224 A St. S.E.
Faris, Robert L. Jr., [D. C.].....	1346 Harvard St.
Farrell, Thomas F., [Mass.].....	The Maury, 19th and G Sts.
Ficklin, Kroes, [Va.].....	Alexandria, Va.
Fihe, Albert J., [Ky.].....	2307 Washington Circle
A.B., St. Xavier College	
Finch, Ruy H., [D. C.].....	U. S. Weather Bureau
Fitzgerald, Irene, [Pa.].....	1713 Kilbourne Pl. N.W.
Fitzgerald, Roby, [Tenn.].....	1124 12th St. N.W.
Ford, Mrs. Gertrude H., [D. C.].....	1114 Euclid St.
Fuhrman, A. J., [D. C.].....	305 Congressional Apt.
Fuller, Ruth, [D. C.].....	Conduit Rd. D. C.
Galeski, Alexandria L., [D. C.].....	1769 Columbia Rd.
Gerber, Simon, [D. C.].....	1339 H St.
Gericke, Else, [Va.].....	The Lenore, 1523 L St.
A.B., University of Nebraska	
Glueck, Sol S., [Wis.].....	707 20th St. N.W.
Godbold, A., [Miss.].....	Bureau of Labor Statistics
Goding, Helen G., [D. C.].....	1419 R St.
Graham, Helen, [Kan.].....	2711 Ontario Rd.
Greene, Lemuel E., [D. C.].....	Apt. 11, 2715 14th St. N.W.
Hamilton, Bonifant, [D. C.].....	3135 24th St. N.E.
Hardy, Rose L., [D. C.].....	812 East Capitol St.
Harris, Kathryn, [D. C.].....	1505 Lamont St.
Harris, Mrs. Sophia Vogt, [D. C.].....	1669 Columbia Rd.
Harvey, Margaret, [D. C.].....	Kenilworth, D. C.
Hecking, Joseph F., [D. C.].....	150 13th St. S.E.
Heckmann, William J., [Ia.].....	2013 H St.
Hidnert, Peter, [N. Y.].....	837 22d St.

Hill, Ira B., [N. C.].....	1247 6th St. S.W.
Hocheisen, Nannette, [D. C.].....	208 E St. N.W.
Hodgkins, George W., [D. C.].....	1830 T St. N.W.
A.B., 1915, A.M., 1916, George Washington University	
Hohenstein, Arthur E., [Ill.].....	505 4th St.
Holm, Adolph F., [Minn.].....	2035 F St.
Holt, Geneva F., [Ill.].....	1401 Massachusetts Ave.
*Hubel, Nelson, [Mich.].....	1832 K St.
Hudson, Margaret E., [D. C.].....	1514 Columbia Rd.
Huff, Charles R., [Minn.].....	Y. M. C. A.
Hunter, Paul B., [Va.].....	Arlington, Va.
Hurley, Frank P., [Mass.].....	20 Grant Pl. N.W.
Jackson, Florence W., [D. C.].....	3519 14th St.
Jarvis, Elsie L., [D. C.].....	2515 P St. S.E.
Joergensen, Hans, [D. C.].....	812 E St. S.E.
Johnson, Edward H., [Tex.].....	518 Newton St.
Johnson, Gladys N., [D. C.].....	1223 K St.
A.B., Richmond College	
Johnson, Perry M., [Va.].....	Alexandria, Va.
Jonas, Josephine Marie, [D. C.].....	1704 Oregon Ave.
Kanof, William J., [N. Y.].....	Patent Office
Kao, L. F., [China].....	2023 Kalorama Rd.
Kebler, Victor, [D. C.].....	1322 Park Rd.
Keenan, Gerald J., [N. Y.].....	1739 P St.
Kelton, Adelaide, [D. C.].....	1827 Kalorama Rd.
Kendrick, Wayne, [Ill.].....	814 B St. S.W.
Kirby, Homer H., [Ohio].....	721 19th St.
Lackey, Mary, [D. C.].....	1612 Que St.
La Manna, Thomas, [N. Y.].....	2121 F St. N.W.
Lanier, Mary, [N. C.].....	1913 G St.
Lasley, William A., [N. C.].....	941 H St.
Lawrence Lucretia M., [D. C.].....	1303 R St.
Lehman, Roland J., [Ill.].....	1404 Harvard St.
Levine, Harry, [N. Y.].....	317 C St.
Logan, David N., [D. C.].....	21 Bates St.
Louis, Max C., [D. C.].....	47 Quincey Pl. N.E.
Lynch, Anna M., [D. C.].....	815 Newton St. N.E.
Lynch, Sara P., [D. C.].....	815 Newton St. N.E.
Lyon, Quinter, [D. C.].....	636 South Carolina Ave.
McClintock, L. Madeline, [Pa.].....	Bureau of Fisheries
McCloskey Scott S., [Pa.].....	In care of Panama Canal, 17th and G St.
McCutcheon, Mrs. L. B., [Md.].....	Brentwood, Md.
McIntyre, Joseph D., [D. C.].....	3048 M St.
McKenzie, Doris, [Mo.].....	Mineral Pt., Mo.
McNelly, Hester, [D. C.].....	324 B St. S.E.
B.S., George Washington University	
Macatee, Robert B., [D. C.].....	1426 M St. N.W.
Mahoney, John, [Neb.].....	1313 K St.
Massie, Mattie L., [D. C.].....	1307 L St.
Meyers, Clara B., [D. C.].....	3214 Wisconsin Ave.
Miller, Mrs. Maude S., [Okla.].....	604 21st St.
Miller, Ralph F., [Pa.].....	338 Maryland Ave.
Moran, Catherine, [D. C.].....	1727 Columbia Rd.
Morawski, Arthur, [Mass.].....	442 Massachusetts Ave.
Morlock, Henry, [N. J.].....	2121 F St. N.W.
Mulford, Mrs. Bessie B., [D. C.].....	3014 Dent Pl. N.W.
Mull, Charles L., [Pa.].....	933 H St.

Myers, Charles G., [Md.]	115 2d St. N.E.
A.B., Western Maryland College	
Myers, John T., [Va.]	Fairfax, Va.
Nafziger, Raymond A., [D. C.]	1310 L St.
Nelson, Clarissa A., [N. D.]	2524 17th St. N.W.
Newman, Erving T. C., [Va.]	Cherrydale, Va.
Nicholson, Charles J., [D. C.]	1000 Maryland Ave., N.E.
Ossire, Cora A., [D. C.]	2729 Ontario Rd.
A.B., A.M., George Washington University	
Paley, Lewis A., [Iowa]	2101 F St.
Paltridge, George H., [D. C.]	1222 O St.
Pelton, Edith, [D. C.]	1807 California St., N.W.
Pope, Ruth Vesta, [D. C.]	1340 Meridian Place, N.W.
A.B., George Washington University	
Porter, Charles W., [O.]	1211 Euclid St. N.W.
Purdue, Florence E., [Fla.]	905 Allison St. N.W.
Ramirez, Julio O., [D. C.]	730 Lawrence St., Brookland, D. C.
Randall, Bernice, [D. C.]	2035 F St.
Rathburn, Oliver N., [N. Y.]	Room 64, Adjutant Gen. Office
Reagan, John W., [Tex.]	1233 Pennsylvania Ave. N.W.
Reeve, Laura W., [D. C.]	1626 19th St.
Reinboth, John F., [Ill.]	1819 F St. N.W.
Remore, H. H., [Ia.]	Northwood, Iowa
Reyes, Irineo J., [P. I.]	148 House Office Bldg.
Reyes, Rosa, [P. I.]	2610 Cathedral Ave.
Rhoads, Max, [Va.]	1726 P St.
Roberts, Allen H., [Va.]	2600 Duke St., Alexandria, Va.
*Rogers, John L., [Tenn.]	1108 K St.
Ryan, Inez, [D. C.]	713 19th St. N.W.
Sage, Lillian W., [Md.]	Rockville, Md.
Scala, Norman P., [D. C.]	918 South Carolina Ave. S.E.
Schaffer, Jacob M., [N. Y.]	1440 R St.
Schissel, Frank, [N. Y.]	2002 G St.
Schwartz, Paul, [N. Y.]	453 Massachusetts Ave.
Scott, Martin G., [Ky.]	In care of U. S. Tariff Commission
Scott, Robert T., [Va.]	328 Senate Office Bldg.
Scriven, Katherine [D. C.]	2009 N St.
Sellner, Blanche, [Md.]	Station H, D. C.
Shefferman, Dr. N. W., [D. C.]	719 11th St. N.W.
Shuman, Mary B. C., [D. C.]	3519 14th St. N.W.
Sidkowsky, Abraham W., [R. I.]	619 K St.
Simmons, R. Nelson, [Minn.]	1404 M St. N.W.
Smith, Francis A., [Idaho]	2013 G St. N.W.
Smith, Margaret M., [Md.]	Riverdale, Md.
Snow, Harold A., [D. C.]	1656 Newton St.
Snyder, Dorothy D., [D. C.]	1112 Fairmont St.
Sorenson, Christian Martin, [Md.]	Flower Ave., Takoma Pk., D. C.
A.B., Washington Missionary College	
Sowersby, Ora, [D. C.]	922 B St. S.W.
Spofford, Harriet, [D. C.]	Ordinance Bureau, War Dept.
*Spofford, Wolcott E., [Va.]	Ordinance Bureau, War Dept.
Stecher, Karl, [Kan.]	Y. M. C. A.
Stites, Alvalyn, [D. C.]	82 M St. N.W.
Stoddard, Ida, [Wis.]	1824 G St.
Strawn, Floyd L., [D. C.]	1408 Girard St. N.W.
Strawn, Mrs. Zoe A., [D. C.]	1408 Girard St. N.W.
Strout, Lillian B., [D. C.]	1011 New Hampshire Ave.

Sublette, M. H., [D. C.].....	2014 G St.
Swoboda Charles Al., [D. C.]	
U. S. Troops Camp, East Potomac Park, D. C.	
Tashjian, Myron, [Mass.].....	2154 F St.
Thompson, Charles Newton, [Va.].....	926 8th St.
*Tomlinson, Rose, [D. C.].....	28th Pl. & R St. S.E.
Troxell, Thomas W., [Md.].....	Gaithersburg, Md.
Ph.B., A.M., Dean College.	
Underwood, Eugene, [Ill.].....	707 20th St.
Vickers, Rose M., [Md.].....	3339 N St. N.W.
Webb, Julia B., (M.D., National Med. School), [Ala.].....	1120 Girard
West, W. Reed, [Tenn.].....	304 D St. N.E.
*Weston, Rey, [D. C.].....	3447 Oakwood Terrace
Wheatley, Mary E., [Va.].....	2138 F St.
Whyte, Russell I., [D. C.].....	2505 14th St.
Whitesell, F. D., [Ind.].....	1114 Euclid St. N.W.
Willis, Warren J., [Minn.].....	1929 K St.
Wilson, Hazen H., [Mo.].....	4004 Georgia Ave.
Wilson, Margery, [D. C.].....	2711 Ontario Rd.
Wright, Grace V., [D. C.].....	The Montgomery
Wu, Bing Sang, [China].....	2023 Kalorama Rd.
Young, Mrs. Augusta Freeman, [N. D.].....	1801 K St.
Young, Celestia B., [Md.].....	Apt. 3, 1129 New Hampshire Ave. N.W.
Zapoleon, Louis B., [Ohio].....	1411 N St.
Zucker, Joseph, [N. Y.].....	412 11th St. N.E.

SUMMARY

Graduate Students

Students in attendance.....	35	
Candidates for M.E. degree.....	2	
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SUMMER SCHOOL, 1917

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Teachers College

Candidates for A.B. and Teacher's Diploma.....	156	
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MEDICAL SCHOOL

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

An asterisk (*) before a name indicates student not in attendance throughout the year.

First Year

Barrows, Victor Ira, A.B., [Vt.]	1322 Vermont Ave.
Bradshaw, George Hardiman, [Mass.]	1335 11th St.
Bowen, Wilbur Lorenzo, [Va.]	1654 Hobart St.
Brenes, Alfredo Robles, [C. A.]	1016 Massachusetts Ave.
Castro, Hernan Rawson, [C. A.]	1115 I St.
Cadilla, Arturo, [P. R.]	9 Grant Pl.
Cooperman, Benjamin, [N. Y.]	1114 10th St.
Clark, Adrian Earl, [N. Y.]	Takoma Park, D. C.
*Colonna, Frances Bindon (Mrs. W. P. Tate) [D. C.]	140 B St. N.E.
Dean, Benjamin F., [D. C.]	916 Massachusetts Ave.
Demopoulos, Christos, [Greece]	452 K St.
Eisinger, Walter George, Jr., [D. C.]	3503 Wisconsin Ave.
Epstein, Nathan, [N. Y.]	1324 Q St.
Fischer, Aubrey David H., [D. C.]	1744 Lanier Pl.
Fletcher, Travis Leigh, [Va.]	Fairfax Court House, Va.
Gates, Herbert Stelwyn, [D. C.]	808 North Carolina Ave.
Grozin, Maurice, [Ohio]	1208 K St.
Glenn, Joseph Burton, [D. C.]	1438 Meridian Pl.
Guynn, Ray Frederick, [Va.]	943 K St.
Herzmark, Maurice Hart, [D. C.]	1631 Newton St.
Hopkins, Ira Jay, A.B., [Utah]	113 Maryland Ave. N.E.
Jacobs, Merlin Edwin, [Mass.]	3425 Porter St.
Johnson, Regena Cook (Mrs.), [Md.]	Chevy Chase, D. C.
Jones, Waldo Hilman, [D. C.]	3625 10th St.
Kain, Helen Gladys, [D. C.]	129 E St.
Lide, Lewis Maxwell, [D. C.]	1318 11th St.
Machlan, Harold F. [D. C.]	Takoma Park, D. C.
Marchena, Ricardo, [C. A.]	1433 Rhode Island Ave.
Masson, Clement Bucannan, [N. Y.]	2811 11th St.
Mayers, May R. (Mrs.), A.M., [D. C.]	1215 10th St.
Poster, Russell Herbert, [Pa.]	1106 New York Ave.
Reed, J. Alton, [D. C.]	522 Sixth St.
Sonneland, Sidney G., [Neb.]	453 Massachusetts Ave.
Schvey, Henry, [N. Y.]	1324 Q St.
Schwartz, Abraham Theodore, [D. C.]	U. S. Naval Hospital
Schwartz, Paul John, [D. C.]	453 Massachusetts Ave.
Slutsky, Benj. Louis, [Conn.]	1115 I St.
Tibbets, Lyman Brooke, Phar.D., [D. C.]	1636 17th St.
Wachter, Edgar Barb, [Md.]	451 Massachusetts Ave.
Warfield, E. Ashby, [Va.]	211 Walnut St. Alexandria, Va.
Wilson, Hazen Harry, [Mo.]	4004 Georgia Ave.
Woolgar, William A. Dains, [D. C.]	Takoma Park, D. C.

Second Year

Baker, Wallace Bruce, [Pa.]	326 F St. N.E.
Beck, Richmond James, [Wis.]	108 3rd St. N.E.

Bland, William Marshall, [Va.]	The Brunswick
Bradley, Everett Lamont, [D. C.]	Falkstone Cts.
Campbell-Chatterton, George, [Tex.]	1214 New York Ave.
Crespo, Jose Eusebio, [P. R.]	904 12th St.
Dazey, George Kendall, [Texas]	1322 Vermont Ave.
Duffie, Don Hastings, [D. C.]	Takoma Park, D. C.
Freeland, Fred Bernard, [D. C.]	1211 H St.
Goodman, William Dennis, [Va.]	The Brunswick
Griffith, Harold Moore, [Pa.]	1123 13th St.
Hollander, Ben, [Pa.]	1111 10th St.
Hayes, Thomas Hirst, [Va.]	307 So. Lee St. Alexandria, Va.
Hiland, Wayman L., B.Sc., [Ohio]	1324 10th St.
Hollingsworth, Russell Kuhner, [D. C.]	1364 Girard St.
Howe, Julian Menzo, [N. Y.]	1946 Calvert St.
King, Charlton R., [Ala.]	1364 Girard St.
Klemme, Roland M., [Ill.]	1739 P St.
Li, Kang, [China]	2014 Kalorama Rd.
Lewis, Charles Harold, A.B., [D. C.]	1312 Vermont Ave.
McKenzie, John Ernest, [S. C.]	1324 10th St.
Mandelos, Nicholas A., [Greece]	1229 New York Ave.
Minick, George Vail, [Pa.]	300 11th St. S.E.
Munoz, Roque N. A., [C. A.]	918 14th St.
Myers, Franklin Hammett, [D. C.]	3754 McKinley St., Chevy Chase, D. C.
Peterson, Ralph Earl Ammerman, [Pa.]	1310 L St.
Pitt, William Franklin, [N. C.]	1123 13th St.
Ramsey, Herbert Percy, [D. C.]	813 Massachusetts Ave. N.E.
Scala, Norman P., [D. C.]	918 South Carolina Ave. S.E.
Stibbs, Henry Weston Barnum, [N. Y.]	2026 H St.
Thompson, Thomas Carlton, [Pa.]	1123 13th St.
Williaman, Frank L., [D. C.]	1113 M St.
Williamson, Fred Yates, [N. C.]	1123 13th St.
Zerbe, Jack Bertolet, [Pa.]	1123 13th St.

Third Year

Barone, Charles James, [Mich.]	1123 13th St.
Bassett, George Overton, [D. C.]	604 7th St. N.E.
Beachley, Ralph Gregory [Md.]	1310 L St.
*Berman, Morris I., [Minn.]	1726 P St.
Crisp, Thomas B., Jr., Phar.D., [D. C.]	638 E St. N. E.
Collins, George A., [Pa.]	1333 15th St.
Campbell, Elliott Muse, [D. C.]	1757 Columbia Rd.
Doyle, John Conan, [N. H.]	708 Massachusetts Ave. N. E.
Gardner, William Clifford, [Pa.]	Emergency Hospital
Hottel, Robert Roy, [Md.]	1214 New York Ave.
Kreiselman, Joseph, [Ohio]	Emergency Hospital
Leetch, Henry Winship, [D. C.]	3259 R St.
Newcomer, Emmett E., [Pa.]	1310 L St.
Schultz, Charles H., [Pa.]	1310 L St.
Smart, James Alexander, [Va.]	Herndon, Va.
Shapiro, Hyman David, [D. C.]	95 L St.
Smiler, Nathan Norman, P.D., [D. C.]	1001 U St.

Fourth Year

Bittinger, Samuel Moffett, [Tenn.]	3910 Livingston St., Chevy Chase, D. C.
Cajigas, Tomas, [P. R.]	2021 H St.

Connor, Jack Anthony, [D. C.].....	2227 First St.
Davis, Cecil Clair, [N. M.]....	George Washington University Hospital
Hartley, Gilbert Vernon, [D. C.,].....	4012 7th St.
Joyce, Francis William, [Pa.]..	George Washington University Hospital
Lewis, Edward, [Tenn.].....	Emergency Hospital
Lyons, John Hugh, [D. C.].....	1112 New Hampshire Ave.
Mason, Lyle Millan, [Va.].....	308 B St. N.E.
Oden, Axel Robert, [D. C.].....	1730 M St.
Rawson, George Henry, [Mass.]....	Casualty Hospital
Ruiz, Ramon C. Nazario, [P. R.].....	Garfield Hospital
Schoenfeld, Herbert Hermann, [D. C.].....	Children's Hospital
Wright, Katherine (Mrs.), [Md.].....	Homeopathic Hospital

SPECIAL

White, G. Franklin, M.D., [D. C.].....	1322 Vermont Ave.
Gosnell, Harry L., [Md.].....	Apt. 4, 509 E St.

SUMMARY

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DENTAL SCHOOL

CANDIDATES FOR THE DEGREE OF DOCTOR OF DENTAL SURGERY

An asterisk (*) before a name indicates student not in attendance throughout the year.

First Year

Burke, William Francis, [Mass.]	1909 G St.
Bleicher, Emanuel, [N. Y.]	The Dorchester
Byer, Nathan, [N. J.]	1404 L St.
Doyle, Daniel Edward, [Mass.]	435 Massachusetts Ave.
Faris, James Brerly, [Pa.]	1707 N. Capitol St.
Garcia, Francisco G. Pelliccia, [P. R.]	905 13th St.
Gray, Marion Houghton, [Fla.]	The Brunswick
Hammond, Bennett, [Pa.]	1845 Monroe St.
Isserlis, Simon Harris, [Mass.]	3134 19th St.
Jones, Cyril Hymen, [N. Y.]	807 12th St.
Leifer, Edward David, [N. Y.]	1411 Harvard St.
Long, Philip Raphael, [N. H.]	2514 13th St.
Lubore, Jacob, [D. C.]	927 P St.
Man, Adlai Morton, [Pa.]	1735 U St.
McGill, Harry Earl, [N. J.]	Wardman Cts.
Moore, William Siebert, [N. Y.]	61 I St.
Murphy, Daniel Jerome, [Me.]	4015 Illinois Ave.
Notes, Louis, [D. C.]	302 M St.
*Patrick, Robert Augustus, Jr., [Ga.]	Naval Medical School
Ray, Claude Madison, A.B., [Va.]	1731 Colorado Rd.
Rowe, Orrin Edmund, [Mich.]	508 I St.
Rosenblum, Alexander, [N. J.]	704 M St.
Roland, Daniel Lynton, [Pa.]	807 12th St.
Themper, Joseph A., [N. Y.]	79 L St. N.E.
Tolmach, Louis, [N. Y.]	1450 Clifton St.
Wiseman, Sidney Aaron, [D. C.]	1333 7th St. N.W.

Second Year

*Adelman, Abraham L., [N. J.]	504 M St. N.W.
*Agnew, Gordon G., [N. Y.]	Berwyn, Md.
*Ashcnofsky, Samuel William, [N. J.]	2504 14th St.
Austin, David Scott, [N. Y.]	807 12th St.
*Avidan, Harold, [N. J.]	504 M St.
Baker, DeWitt T., [Texas]	1307 N St.
Chandler, Chester Gleason, [Iowa]	1927 Lincoln Rd.
Colomen, Rebecca Bessie, [N. Y.]	1411 Harvard St.
*Cohen, Frank J., [Mass.]	504 M St.
*Cohen, George, [N. J.]	504 M St.
*Chiger, Marion, [N. J.]	1228 S St.
Collins, John Patrick, [N. H.]	Hamilton Hotel
*Cone, Nathan, [N. J.]	504 M St.
Dailey, Frank Leonard, [Wash.]	Apt. 109, 2106 F St.
Donovan, Edward Harold, [Mass.]	1322 Massachusetts Ave.
Dull, John W., [Pa.]	Rm. 458, Treasury Bldg.
Erikson, Bernhard Edwin, [Ill.]	2112 F St.
Gates, Thomas David, [D. C.]	808 North Carolina Ave. S. E.

Genesse, Louis Joseph, [N. Y.]	944 K St.
*Gorton, William Howard, [N. Y.]	920 Spring Rd.
Greene, Robert E., [N. Y.]	1812 Ontario Pl.
*Grossman, Louis, [N. Y.]	504 M St.
Harrington, George Elliott, [D. C.]	4641 Conduit Rd.
*Hoffman, Lewis, [N. Y.]	26 Grant Pl.
*Holstein, David, [N. J.]	504 M St.
Hunt, Elliott A., [N. J.]	The Powhatan Hotel
*Hurwitz, Major Jonah, [N. Y.]	503 L St.
*Jeskowitz, Frances R., [N. Y.]	1228 S St.
*Kallish, Samuel A., [N. Y.]	106 I St.
Katzman, Samuel, [N. Y.]	503 L St.
*Kelly, Clarence Edward, [Mo.]	Apt. 38, 1820 K St.
*Kunzelman, Louis, [D. C.]	14th & M Sts.
Link, Bernard, [N. Y.]	26 Grant Pl.
*Marcus, Callie K., [N. J.]	1501 11th St.
*Marks, Emil, [N. J.]	1501 11th St.
Marr, William Walter, [D. C.]	1815 Vernon St.
*Meisles, Samuel, [N. Y.]	106 I St.
McCullough, Robert William, [Md.]	222 2nd St. N.E.
Mitchell, James Francis, [R. I.]	1105 C St. S.W.
Morrison Ralph Lancaster, [Md.]	65 Rhode Island Ave.
O'Brien, Arthur Gregory, [N. Y.]	1237 10th St.
*Olinger, Maurice, [N. J.]	504 M St.
*Pashkow, Harry A., [N. J.]	504 M St.
*Phillips, Abraham I., [N. J.]	1501 11th St.
†Reilly, Thomas Arthur, [N. J.]	1616 I St.
Rhodes, William Sidney, [Va.]	1603 16th St.
Richman, Ivan Hjalmar, [Minn.]	66 Randolph Pl.
Robinson, Raymond V., [D. C.]	450 New Jersey Ave. S.E.
Sechrist, Noah Cleveland, [Pa.]	1772 Willard St.
*Silberberg, Morris, [N. J.]	1501 11th St.
*Singer, Morris, [N. J.]	1501 11th St.
*Slifkin, Louis Burton, [N. J.]	504 M St.
*Sontag, William, [N. J.]	1501 11th St.
*Solow, Leo, [N. Y.]	504 M St.
Stiefel, Charles V., [D. C.]	Cherrydale, Va.
Sullivan, Walter Daniel, [Mass.]	1324 Vermont Ave.
Swanson, Henry Albert, [N. D.]	1233 C St. N.E.
Thomas, Charles Lenton, [Texas]	1733 20th St.
Veintraub, Jacques, [N. J.]	924 Massachusetts Ave.
Walzl, Carl W., [D. C.]	1123 C St. S.E.
*Weber, Louis M., [N. J.]	1228 S St.
Wheelock, Carl R., [Ohio]	1214 I St.
White, Earle Benjamin, [D. C.]	Apt. 109, 332 Seaton Pl. N.E.
Wing, Ernest W., [N. J.]	1236 Girard St.
Witt, Charles Ralph, [Ind.]	1227 N St.

Third Year

*Appleton, Frederick Otto, [N. Y.]	2018 H St.
Arbeely, Joseph Evans, [D. C.]	U. S. Soldier's Home
*Bawer, Alexander, [N. Y.]	1726 P St.
Boston, John Armistead, [Va.]	1102 L St.
Boiko, Joseph Alexander, [N. Y.]	915 New York Ave.

† Deceased.

Bonnett, Ralph William Smeade [Ohio].....	637 Park Rd.
*Brown, Nathaniel Hawthorne, [N. J.].....	1228 S St.
Butkiewicz, Eugenia, [D. C.].....	312 G St. N.E.
Cheely, Walter Cuthbert, [Colo.].....	1741 G St.
Christiansen, Elmer Erastus, [Utah].....	1311 K St.
Clements, Mathew Peter, [Conn.].....	1015 E St. N.E.
Coghlin, Julia Sylvia, M.D., [Mass.].....	1209 K St.
Copping, John Blake, [D. C.].....	Portland Hotel
*Curran, Francis Joseph, [N. Y.].....	1223 K St.
Danforth, Earl Fielding, [D. C.].....	2622 13th St.
Erickson, Hilmer Alvin, [Minn.].....	New Varnum Hotel
Evansha, John Franklin, [Pa.].....	The Coywood
Faherty, Leo Charles, [D. C.].....	1400 Pennsylvania Ave. S.E.
Fainman, Abraham Joseph, [D. C.].....	2137 9th St.
*Field, James Lawrence, [N. Y.].....	1201 11th St.
Frank, Earl Bennett, [R. I.].....	1333 15th St.
*Grillo, Giovanna, [N. Y.].....	128 C St.
Goren, David Harry, [Mass.].....	503 L St.
*Halstead, Charles David Rustan, [N. J.].....	1201 11th St.
Harbison, Leo Anthony, [D. C.].....	1407 Chapin St.
Harris, Michael, [R. I.].....	1135 6th St.
Hein, Edward F., [Ill.].....	943 K St.
Horgan, Frederick William, [Mass.].....	G. W. Hotel
*Inbender, Charles, [N. Y.].....	1335 H St.
*Jailer, Mark, [N. Y.].....	1726 P St.
*Kaplan, Jacob Sol, [N. J.].....	1501 11th St.
Kearney, Edward Joseph, [D. C.].....	1618 First St. N.E.
Keroes, William, [D. C.].....	2404 14th St.
King, Willard Jones, [D. C.].....	The Cadiz
Kuku, Jacob Lewis, [N. Y.].....	1314 14th St.
Levey, Nathan, [N. Y.].....	1109 14th St.
*Livingston, Lauriston Rawson, [N. J.].....	1733 H St.
Lowry, Henry Clay, [Mich.].....	1333 15th St.
Manley, Oscar L., [Mo.].....	The Coywood
McCarthy, Dean Joseph, [D. C.].....	1220 G St.
McGauley, Francis Hastings, [Mass.].....	1237 10th St.
*Moskowitz, Benj., [N. J.].....	1501 11th St.
*Nalebuff, Harry, [N. J.].....	1726 P St.
Naylon, Paul Earl, [Pa.].....	1237 10th St.
Popkin, Hymen, [N. J.].....	1726 P St.
Powell, William Henry, [Va.].....	Apt. 66, The Plymouth
Rush, Armaxner Exner, [D. C.].....	629 G St. S.W.
Rustia, Francisco, [P. I.].....	Falkstone Cts.
*Saferstein, George Julian, Ph.G. [N. J.].....	1726 P St.
*Schantz, Emmanuel, [N. J.].....	1726 P St.
Shibata, Gunichi, [Japan].....	933 N St.
*Shapiro, Louis, [N. J.].....	1726 P St.
*Silberberg, Samuel Sidney, [N. J.].....	1501 11th St.
Stephens, Milton, [Tenn.].....	24 Grant Pl.
Sullivan, Charles Gregory, [Mass.].....	1237 10th St.
Sweet, William Manley, [D. C.].....	211 Florida Ave.
Tracy, Walter Egan, [N. J.].....	610 Upsur St.
Vordermark, Herman, [S. Dak.].....	The Woodworth
Walter, Eugene LeRoy, [D. C.].....	716 13th St.
*Wovsaniker, Louis, [N. Y.].....	1335 H St.

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STUDENTS REGISTERED IN THE LAW SCHOOL 1917-18

Names of students who have withdrawn or graduated are indicated by stars; those who have entered since February 1, 1917, by daggers.

Students who are college graduates are indicated by the degree, year in which it was received, and name of college conferring it.

Students who have had only part of a college course are indicated by the names of the colleges attended.

CANDIDATES FOR DEGREE OF BACHELOR OF LAWS

First Year Class

Albertsworth, Edwin Franklin, [Md.]	
	130 Carroll Ave., Takoma Park, Md.
A.B., 1915, A.M., 1916, George Washington University	1908 H St.
Aurynger, John James, [N. Y.]	3359 18th St.
*Bains, Robert Stinemetz, [D. C.]	1427 Buchanan St.
B.S., in Agriculture, 1916, Maryland State College.	3213 13th St.
*Ballinger, Edwin Ray, [Colo.]	414 6th St.
Barbour, Harriet M., [Ore.]	U. S. Shipping Board
George Washington University.	
Bardill, Walter Samuel, [Pa.]	1810 Calvert St.
Barton, James Bryon, [Utah]	
University of Utah.	
†Bauman, Walter Michael, [Neb.]	1814 Park Rd.
University of Nebraska.	
*Baxter, Horace Monroe, [Mass.]	1435 K St.
B.S., in E.E., 1917, Massachusetts Institute of Technology.	
*Becker, James Herman, [Ill.]	2129 F St.
A.B., 1917, Cornell University.	
Bell, Charles Rowan, [Ky.]	Swiss Legation
†Bertschinger, Marguerite, [Switzerland]	3613 14th St.
Bielskis, Julius John, [D. C.]	
N.D., 1914, Blumer College of Natureopathy.	
Bloem, John Harry, [Mich.]	Federal Trade Commission
Kalamazoo College, George Washington University.	
*Bockovac, Joseph Lorenz, [Md.]	12 9th St. S.E.
*†Borum, Wylie Griffin, [Tenn.]	1916 16th St.
†Brachlow, Willard Haydn, [Minn.]	1311½ M St.
*Brandes, Walter Christian, [D. C.]	2032 16th St.
Ph.B., 1916, Yale University.	2804 14th St.
Bryant, Joseph Mortimer, [Utah]	
B.S., 1902, C.E., 1905, Virginia Polytechnic Institute.	625 F St.
*Buckley, William Francis, [D. C.]	
Catholic University of America.	
Cabler, Cleveland, [Ark.]	1100 Vermont Ave.
Henderson-Brown College, University of Arkansas.	
*Cage, John Palmer, [Idaho]	1860 Columbia Rd.
George Washington University.	416 6th St.
Campaign, Harry John, [Wis.]	
University of Wisconsin.	
Canfield, Raymond Bishop, [D. C.]	701 McLachlen Bldg.
Ph.B., 1910, Yale University.	

- *Carpenter, Allen Rogers, [D. C.].....1411 Delafield Pl.
 Carter, George Henry, [Iowa].....1661 Hobart St.
 Ph.B., 1898, State University of Iowa.
 *Cherrington, Edwin Nash, [Ohio].....808 19th St.
 †Clarke, Calvin, [Ky.].....1254 Hamlin St. N.E.
 Clawson, Marvin Vaughn, [Ill.].....43 Girard St. N.E.
 *Cohen, Louis Samuel, [Conn.].....1115 16th St.
 Trinity College.
 Collins, Elmer Briggs, [Ala.].....111 B St. S.E.
 Cook, Pulaski King, [Ill.].....1028 16th St.
 A.B., 1915, Dartmouth College.
 *†Cooley, George Henry, [D. C.].....1766 Church St.
 Ohio State University.
 *Crews, Clarence McKinnie, [D. C.].....109 5th St. N.E.
 Cunningham, Clark M., [Okla.].....2460 Ontario Rd.
 A.B., 1916, University of Oklahoma.
 †Curry, Joseph Clifford, [Tenn.].....925 L St.
 University of Chattanooga
 †Dana, Helen Salisbury, [N. Y.].....1329 L St.
 George Washington University.
 *Davis, Ralph Eaton, [U.S.M.C.] [D. C.].....U. S. Marine Corps
 George Washington University.
 *†Day, Edward Jenner, [N. J.].....1311 K St.
 *De Tar, Marion David, [Ind.].....2012 O St.
 Oakland City College, Indiana University, George Washington University.
 Dickinson, John, [Md.].....1606 K St.
 A.B., 1913, Johns Hopkins University, A. M., 1915 Princeton University.
 *Dodd, Charles Alfred, [Ind.].....1722 Euclid St.
 A.B., Central Normal College of Indiana.
 Drees, George, [D. C.].....923 8th St.
 Duncan, Robert Fuller, [Mass.].....American Red Cross
 A.B., 1912, Harvard University.
 *Dyer, Wilbur Clyde, [Ohio].....1423 Newton St.
 Eddy, Grace Marie, [Wis.].....1424 R St.
 George Washington University.
 Fearing, Justin Lincoln, [Mass.].....The Ethelhurst, 15th & L Sts.
 George Washington University.
 *Franklin, Emmanuel, [N. Y.].....3645 13th St.
 Syrian Protestant College, Beirut, Syria.
 *Fredericks, Gustav Henry, [Iowa].....224 2nd St. N.E.
 Ellsworth College.
 de Freitas, John T., [Cal.].....1211 K St.
 †Gardner, Burton Everett, [D. C.].....118 Maple St., Takoma Park, D. C.
 George Washington University.
 Geiger, Olive Evalyn, [D. C.].....1855 Calvert St.
 Maryland College for Women.
 George, Susan Frances, [N. Y.].....1104 M St.
 Giddings, Leander John, [Oreg.].....1319 East Capitol St.
 Dakota Wesleyan University.
 *Gladstone, Harry, [D. C.].....1748 8th St.
 George Washington University.
 *Gorman, James Howard, [Mass.].....805 12th St.
 Grabill, Lee R., Jr., [D. C.].....Patent Office
 B.S., 1914, Washington and Lee University.
 Gregg, Lewis Judson, [Mich.].....26 14th St. N.E.

- †Gross, Alfred Artyn, [N. Y.].....2507 10th St. N.E.
 *Hardell, John William, [D. C.].....906 P St.
 George Washington University.
 Haskell, Frank Edward, [N. Y.].....438 Park Rd.
 M.E., 1906, Cornell University.
 Heckner, Marie Antoinette Dolores, [W. Va.].....1024 Vermont Ave.
 University of West Virginia; University of Chicago.
 Henry, Condor Caywood, [Tenn.].....2418 14th St.
 A.B., 1915, George Washington University.
 *Hermanns, Anna Marie [D. C.].....Indian Office
 George Washington University.
 Higgins, Daniel Ernest, [Me.].....636 E St. N.E.
 University of Maine.
 *Hilliard, Benjamin Clark, Jr., [Colo.].....1810 N St.
 State University of Iowa.
 *Hise, Harley, [Ind.].....1439 T St.
 Hodson, Elmer Reed, [D. C.].....1819 Belmont Rd.
 B.Sc., 1898, M.Sc., 1900, Iowa State College.
 †Holt, Everett G., [Me.].....715 19th St.
 A.B., 1915, Colby College.
 Hooker, William Anson, [Mass.].....19 Pine Ave., Takoma Pk., D. C.
 B.Sc., 1899, Massachusetts Institute of Technology.
 *Ireland, Paul Frederick, [Ohio].....1030 17th St.
 B.S. in M.E., 1915, Case School of Applied Science
 Jackson, Edna L. V., [Idaho].....1418 Rhode Island Ave.
 A.B., 1914, Leland Stanford, Jr., University.
 James, Maxwell, [N. Y.].....1020 Fairmont St.
 B.S., 1913, College of the City of New York.
 Johnson, Archie Cadwell, [Minn.].....The Ethelhurst, 15th & L Sts.
 Gustavus Adolphus College.
 *Johnson, Herbert Cal., [Minn.].....1103 K St.
 †Johnson, John O., Jr., [Ore.].....1312 Columbia Rd.
 Kahl, Roger Aloysius, [Conn.].....1224 Massachusetts Ave.
 A.B., 1914, Fordham University.
 Kanof, William Jacob, [N. Y.].....Patent Office
 B.S. in E.E., 1914, Cooper Union.
 Kimbel, Joseph Wesley, [Pa.].....1433 Ames Pl. N.E.
 *Kummer, Arthur Walter, [Neb.].....1339 L St.
 *Kurz, Joseph Alphonsus, [Pa.].....1324 Emerson St.
 B.S. in C.E., Villanova College.
 LaFleur, John Ralph, [Me.].....1414 15th St.
 B.S., 1915, Colby College.
 Lamb, Albert Thomas, [Kans.].....1225 L St.
 *Langston, James Argile, [Okla.].....1404 15th St.
 *Ledermann, Frank, [N. Y.].....1201 Clifton St.
 E.E., 1917, Polytechnic Institute of Brooklyn.
 Levinson, Charles William, [Md.].....U. S. Patent Office
 A.B., 1915, Johns Hopkins University.
 *†Lewis, William Earl, [Ind.].....150 A St. N.E.
 Livingston, Walter McKenzie, [S. D.].....1409 21st St.
 University of South Dakota.
 Lowe, Emory Roscoe, [Ind.].....U. S. Patent Office
 A.B., 1904, Wabash College.
 *Lyon, William Campbell, [Pa.].....1808 Kalorama Rd.
 Carnegie Institute of Technology.
 †Mace, Merwin Ardeen, [Minn.].....1311½ M St.
 Maiori, Nino Julius, [N. Y.].....1839 Kilbourne Pl.

- Manning, Ellis Wooster, [Okla.].....707 20th St.
Manning, Lucy Rains, [Okla.].....707 20th St.
*Manning, Maurice Harry, [Neb.].....222 7th St. N.E.
Iowa State College
*Marks, John Lalande, [La.].....110 C St. S.E.
A.B., St. Paul's College
*Mathias, Floyd Branson, [W. Va.].....718 Shepherd St.
*†McCarthy, Mayna, [N. Y.].....229 1st St. N.E.
*McClintock, Earl Fleming, [Mo.].....1325 M St.
*McCormick, John Dominic, [D. C.].....1377 North Carolina Ave.
B.S. in C.E., 1914; C.E., 1915, George Washington University.
*McDonough, Margaret Marie, [D. C.].....639 Keefer Pl.
*Merryman, Leo Arthur, [Mo.].....1414 V St.
George Washington University.
Middleton, George Elmer, [Va.].....U. S. Patent Office
C.E., 1912, Ohio State University; A.B., 1916, George Washington
University.
*Mielke, Lawrence Michael, [Wis.].....1000 Columbia Rd.
*Mohsen (Kahn), [Persia].....1513 16th St.
George Washington University
*Morell, William, [Minn.].....U. S. Naval Hospital
Macalaster College, University of Minnesota
Morgan, Linton, [Ariz.].....2106 F St.
*Murphy, Gerald James, [Vt.],
A.B., St. Michael's College.
*†Myers, Elvin E., [Pa.].....229 1st St. N.E.
†Nagelberg, Alfred, [N. Y.].....1115 5th St.
B.S. in Eng., 1915, Cooper Union.
*Naylor, Playford Alonzo, [Md.].....1324 Massachusetts Ave. S.E.
Ohio Wesleyan University
Nolte, Albert Charles, [Pa.].....U. S. Patent Office
E.E., 1914, Columbia University
†O'Brien, James John, [N. Y.].....336 14th St. N.E.
O'Leary, John Francis, [Wis.].....2112 F St.
*Page, Proctor Hull, [Vt.].....The New Cochran Hotel
Paris, Israel, [Mass.].....1445 R St.
S.B., 1914, Massachusetts Institute of Technology
*Peterson, Robert Karl, [D. C.].....The Lenox
†Pierce, Clifford Davis, [Tenn.].....434 Massachusetts Ave.
George Washington University
†Pixley, Rex Arthur, [Mich.].....2106 Flagler Pl.
Maryville College
*Plagens, Henry Jay, [Kans.].....1806 Riggs Pl.
*Preston, George Dollinger, [Vt.].....1414 Massachusetts Ave.
Randall, Carlton Morrell, [Pa.].....1339 15th St.
Raymond, Mary Jane, [D. C.].....1224 Euclid St.
Reges, Maximilian F., [N. J.].....81 V St.
George Washington University
Reynolds, Marvin Jacob, [N. Y.].....1916 F St.
C.E., 1917, Rensselaer Polytechnic Institute
Richmond, Allen Rossman, [Iowa].....1627 16th St.
State University of Iowa
†Rivera, Luis Atienza, [P. I.].....206 Pennsylvania Ave. S.E.
College of the Pacific
Rogers, Evelyn Mae, [Me.].....1400 Belmont St.
*Rosenberg, Charles Robert, Jr., [N. J.].....P. O. Box 1024
A.B., A.M., St. Joseph's College

- Ruch, George Franklin, [Pa.].....1353 Longfellow St.
George Washington University
- *Saulsbury, William, [Del.].....1820 I St.
A.B., 1887, Harvard University
- Schwertner, Fritz, [D. C.].....326 C St. S.W.
U. S. Patent Office
- Shappirio, Solomon, [D. C.].....518 6th St.
B.Ch., 1915, University of Michigan
- Shklar, Joseph Barnett, [D. C.].....914 R St.
C.E., 1911, Ohio State University
- *Siskind, Hyman Henry, [Conn.].....1330 11th St.
- †Streitmatter, Albert Elmer, [Ill.].....Y. M. C. A.
- *Tanner, Henry Bernard, [Utah].....1353 Irving St.
University of Utah
- Thompson, Glenn M., [Ind.].....Navy League
- *Townsend, Arthur Jesse, [Ga.].....725 12th St.
George Washington University
- Townsend, John William, [Fla.].....2133 F St.
Southwestern Presbyterian University
- *Tschirgi, Frank Horace, [Wyo.].....321 East Capitol St.
- Uehren, Robert Monat, [Wis.].....Hyattsville, Md.
- Van Meter, Arthur, [Ohio].....Y. M. C. A.
A.B., 1913, Ohio State University
- Van Wagoner, Earl, [Utah].....1100 L St.
Utah Agricultural College
- *Wainwright, Charles Edward, [Va.].....1615 Florida Ave.
Bucknell University, Columbia University
- *Waite, Grace Mary Merkel, [Ill.].....3461 Lowell St.
- Weeks, Dorothy Walcott, [D. C.].....433 2d St. S.E.
A.B., 1916, Wellesley College
- *Weinberg, Leon Abraham, [D. C.].....3538 14th St.
- Weinberg, Philip Pimut, [Wis.].....1338 Vermont Ave.
- *Wilbur, Howard, [Mass.].....2610 University Pl.
B.S., 1914, Harvard University
- *Williamson, Ernest R., [Oreg.].....1346 Monroe St. N.E.
- Wilson, Lee Ross, [Ohio].....Y. M. C. A.
George Washington University
- *Wiseheart, Malcolm Boyd, [Ill.].....3420 16th St.
- †Woodard, Harry Stott, [D. C.].....1759 Columbia Rd.
George Washington University
- †Woodson, Fred Lee, [Mo.].....2716 Ontario Rd.
- *Young, Leslie Bernard, [N. Y.].....1914 H St.
A.B., 1913, Cornell University
- †Zucker, Samuel, [Pa.].....

Second Year Class

- *Amussen, Theodore Smith, [Utah].....3929 Morrison St.
University of Utah
- Bartholow, Edmond Montgomery, [Kans.].....2030 Lawrence St. N.E.
A.B., 1909, University of Kansas
- *Berk, Saul Bernard, [Ohio].....1123 13th St.
Stetson University
- *Brodie, Loy Hall, [D. C.].....2003 Girard St. N.E.
- *Brown, Earle L., [Iowa].....1414 V St.
- Cole, John Melvin, [N. Y.].....2140 N St.
B.S. in E.E., 1911, Clarkson College of Technology
- Corbin, Elmer L., [Ill.].....Room 87, Treasury Dept.

- *Cramer, John Nicholas, [N. Y.].....1462 Newton St.
Columbia University
- *Cullinan, William Howell, [N. J.].....1423 Massachusetts Ave.
A.B., 1916, Cornell University
- *Diaz, Jose Nicholas, [P. R.].....915 16th St.
Maryland State College
- Dismon, Arthur Lewis, [N. Y.].....630 Southern Bldg.
- Eames, William Herbert, [Mass.].....2609 Myrtle Ave.
- Edwards, John William, [Vt.].....403 Union Trust Bldg.
- *Fairbank, Carl S., [Mich.].....1422 Massachusetts Ave.
Albion College, George Washington University
- Faulkner, Robert Raymond, [Ill.].....5 Rhode Island Ave.
- Flam, John, [N. Y.].....U. S. Patent Office
B.E., 1916, Union College
- Fravel, Robert H., [Va.].....1101 17th St.
A.M., 1906, Randolph-Macon College
- Fray, John A., [Cal.].....121 3d St. N.E.
A.B., 1909, Missouri Valley College
- *†Haimowitz, Joseph Mayer, [Ill.].....1129 Euclid St.
University of Chicago
- Hall, Howard Lewis, [Minn.].....1 Dupont Circle
A.B., 1915; A.M., 1916, University of Minnesota
- *Hoffnagle, Harry Herbert, [N. Y.].....1814 Newton St.
A.B., 1917, Cornell University
- *Holmgren, Samuel Theodore A., [Mass.].....Y. M. C. A.
- *Hurd, Cato Burdge, [Ind.].....Indian Office
- Janson, Harold Jennings, [Okla.].....1420 Irving St. N.E.
B.Sc. in Ed., 1912, B.A., 1913, Ohio State University
- †Jones, Clyde E., [Iowa].....935 H St.
A.B., 1917, State University of Iowa
- Kerr, John Morrison, [D. C.].....1156 15th St.
- †Kimmel, Clarence Eugene, [Ill.].....901 20th St.
A.B., 1917, University of Illinois
- Lavery, Thomas Claffey, [Mo.].....1906 N St.
Valparaiso University
- *Leffler, Paul Emerson, [Ind.].....1003 New Hampshire Ave.
Indiana University
- Lehr, Milton Anthony, [Ohio].....5617 Colorado Ave.
George Washington University
- *Levy, Leonard Solon, [Ohio].....621 E St.
A.B., 1917, Harvard University
- †*Lillie, Don M., [Mich.].....3103 Mt. Pleasant St.
A.B., University of Michigan
- *McIntyre, Frank Patrick, [Conn.].....1324 Vermont Ave.
Oregon Agricultural College
- Mackey, Stuart Jones, [N. Y.].....1814 Park Rd.
C.E., 1915, Rensselaer Polytechnic Institute
- Miller, Henry, [Ky.].....Y. M. C. A.
- Miller, Howard Seaman, [Cal.].....U. S. Patent Office
E.E., 1913; M.A., 1915, University of California
- *Neff, William Jesse, [Kans.].....Interstate Commerce Commission
- Nelson, Le Roy Walter, [Neb.].....Civil Service Commission
- Newsom, Bessie Wooten, [Ark.].....1733 17th St.
A.M., 1914, Vanderbilt University
- *Noble, Lew Maurice, [Me.].....Library of Congress
A.B., 1916, Bowdoin College
- Pabst, Bertha E., [D. C.].....3551 Holmead Pl.

- Paltridge, George Henry, [D. C.].....1222 O St.
 A.B., Feb. 1918, George Washington University
- *Pearlove, Edward Joseph, [Minn.].....1214 I St.
- Pedersen, Aksel Marius, [Conn.].....702 19th St.
 B.S., 1912, Massachusetts Institute of Technology
- Peter, Robert, [Md.].....Rockville, Md.
 George Washington University
- †Peters, Robert Le Roy, [Wis.].....124 6th St. N.E.
 A.B., 1917, University of Wisconsin
- Ralston, Julian Craven, [Ind.].....2012 O St.
 A.B., 1917, Indiana University
- Read, William Alfred, [Mass.].....1769 Columbia Rd.
 A.B., 1905, A.M., 1906, Brown University
- *Riggles, Joseph Richard, Jr., [D. C.].....1328 Fairmont St.
- *Ryan, Mark Joseph, [N. Y.].....2132 F St.
- St. Clair, Albert Thurston, [D. C.].....1401 Columbia Rd.
 A.B., 1917, George Washington University
- *Schaaff, Joseph Benjamin, [D. C.].....1824 Monroe St.
- Shea, James Patrick, [D. C.].....1161 Neal St. N.E.
 A.B., 1915, Georgetown College
- Snook, J. Donald, [Ohio].....166 House Office Bldg.
 Kenyon College
- *Stafford, Harold Emerson, [Wis.].....1333 15th St.
- Steele, Francis Willard, [W. Va.].....1739 P St.
 University of West Virginia
- *Sterling, Ralph J., [Ohio].....1739 P St.
 George Washington University
- *Sweatt, Harold Butler, [Mass.].....1300 Kenyon St.
- *Sydenham, Humphrey, [D. C.].....The Moulton
 Lehigh University
- Tomlinson, John Pride, [Tenn.]...Office of the Secretary of the Senate
 A.B., 1914, University of the South
- *Van Petten, Harold Edwin, [Ill.].....1302 Park Rd.
 Illinois State Normal School
- *Wheeler, Arthur Joseph, [Ariz.].....Indian Office
 M.D., 1908, George Washington University
- *Wheeler, Walter Calhoun, [N. Y.].....U. S. Patent Office
 B.Chem.E., 1912, University of Michigan
- †Wilensky, Joseph, [Ill.].....1436 R St.
- Wright, Lewis A., [D. C.].....706 11th St.
 Lehigh University
- Yang, Yung-Ching, [China].....2001 19th St.
 A.B., 1910, Soochow University
- *Young, George Wilson, [Mass.]....Washington Loan and Trust Bldg.

Third Year Class

- Alverson, Lyle Thomas, [Ill.].....Navy Department
- Ancheta, Leon, [P. I.].....146 House Office Bldg.
 A.B., 1915, University of the Philippines
- Arber, Frederick Verne, [Ill.].....1333 15th St.
 A.B., 1916, University of Illinois
- Ash, Robert, [N. Y.].....The Sherman
- *Banks, Andrew Jackson, [Ohio].....712 I St. N.E.
 LL.B., February 1918, George Washington University
- †Bardwell, Halsey Warren, [Vt.].....1495 Newton St.
 Ph.B., 1910, Ewing College, Ill.

- Baskin, Maurice, [D. C.].....U. S. Patent Office
A.B., 1911, Harvard University
- *Billingsley, James Lemuel, [Okla.].....1100 Vermont Ave.
Birmingham, John Thomas, [Conn.].....1100 Vermont Ave.
- *Bloch, Monroe Percy, [N. Y.].....Council of National Defense
A.B., 1915, Yale University
- *Bostroem, August, [N. Y.].....1211 Clifton St.
B.S., 1903, College of the City of New York, M.E., 1906, Cornell University
- †Bremer, Edward G., [Minn.].....1441 Rhode Island Ave.
- *Brody, Arthur Chester, [N. Y.].....The Brunswick
- Brown, Ralph Waldo, [D. C.].....U. S. Patent Office
E.M., 1912, Lafayette College
- Burg, Robert Edward, [D. C.].....2329 N St.
George Washington University
- *Callahan, Charles D., [D. C.].....1523 8th St.
- Carbo, Ernest Philip, [D. C.].....825 Vermont Ave.
- *Carter, Ferdinand Espey, [Md.].....Taylor St., Chevy Chase, Md.
- *Chamberlain, Ernest R., [Kans.].....1914 Pennsylvania Ave.,
A.B., 1916, LL.B., February 1918, George Washington University
- Chesnul, Charles Vincent, [Mass.].....2026 G St.
Boston College
- *Connell, Letcher Benjamin, [Tenn.].....House Post Office
- Cornell, Herbert Watson, [Col.].....119 Thomas St.
A.B., 1908, University of Colorado
- *Demaree, Harry Stambaugh, [Pa.].....1916 16th St.
Lehigh University; LL.B., February 1918, George Washington University
- Denit, Louis Malvern, [D. C.].....717 East Capitol St.
- *Dieserud, Einar Wellen, [D. C.].....216 Maryland Ave. N.E.
- Eudaley, Glenn Robert, [Ky.].....Treasury Department
- *Fjeld, Alvin L., [S. Dak.].....Senate Office Bldg.
St. Olaf College, Northfield, Minn., George Washington University
- *Flickinger, Samuel John, [N. J.].....1808 Kalorama Rd.
LL.B., February 1918, George Washington University
- Freeman, Hadley Fairfield, [Ohio].....U. S. Patent Office
B.S., in E.E., 1914, Case School of Applied Science
- Friedland, Karl Benjamin, [Utah].....216 Cavanaugh Courts
- Gingsberg, Solomon, [N. Y.].....Treasury Dept.
- Hall, Gilbert Lewis, [Oreg.].....Indian Office
A.B., 1899, Swarthmore College
- Hamilton, Ralph Hayes, [Ohio].....Grafton Hotel
- Hanes, Harold Fitz-Hugh, [Va.].....1208 K St.
- Harden, Fred Geer, [Neb.].....1468 Harvard St.
A.B., 1907; A.M. 1908, University of Nebraska
- *Heist, Luther H., [Pa.].....1739 P St.
LL.B., February 1918, George Washington University
- Hensel, Frederick William, [Minn.].....Indian Office
- Hill, Walter Barnard, [Ga.].....1313 Rhode Island Ave.
B.S. in E.E., 1913, University of Georgia
- †Horn, Thomas Stanislaus Aloysius, [Mo.].....1644 Newton St.
Washington University
- Huff, John James, [Iowa].....707 20th St.
A.B., 1909, State University of Iowa
- Jewell, Jeannette, [D. C.].....1485 Columbia Rd.
- Kidder, Harry Waldo, [Me.].....1865 Kalorama Rd.
A.B., 1911, Colby College

- *Knaack, Walter Reubens, [Wash.].....1829 19th St.
 *Kohn, Abraham Robert, [Ill.].....Export Administrative Board
 Larsen, Roy William, [Minn.].....1806 Riggs Pl.
 A.B., 1913, University of Minnesota
 Lind, Charles Anselm, [Minn.].....U. S. Patent Office
 Valparaiso University
 Lindsay, Alfred Briscoe, [D. C.].....832 Rittenhouse St.
 A.B., 1913, George Washington University
 *Loggins, James Elwyn, [Tenn.].....1808 Kalorama Rd.
 Vanderbilt University
 Lorenz, David, [D. C.].....3604 14th St.
 Madden, Walter Joseph, [S. Dak.].....1806 Riggs Pl.
 *Marshall, Charles Orr, [Neb.].....U. S. Patent Office
 University of Omaha; LL.B., February 1918, George Washington
 University
 Miller, Clarence Altha, [Pa.].....The Hirmhurst
 *Morrow, Henry Bascom, Jr., [Tenn.].....Nashville, Tenn.
 LL.B., October 1917, George Washington University
 *Newcomb, Irving Beekman, [Md.].....3406 17th St.
 Georgetown College
 Nichol, James Wallace, [Mich.].....412 Willard Courts
 George Washington University
 Norris, Rhesa Miles, [Pa.].....U. S. Patent Office
 George Washington University
 †Osoinach, John A., [Miss.].....1019 C St. S.W.
 Mississippi State University
 †Osoinach, Ruth Campbell, [Miss.].....1019 C St. S.W.
 Parker, Arthur Seymour, [N. Y.].....706 Irving St.
 Parmelee, William Horace, [Pa.].....1808 Kalorama Rd.
 *Perlman, William Samuel, [Ill.].....Export Administrative Bd.
 University of Illinois, Armour Institute, University of Chicago
 Rhoads, Max, [Va.].....1726 P St.
 Richey, Daniel Lee, [Kans.].....3112 Warden St.
 †Robertson, Wallace Andrew, [Ind.].....2034 F St.
 Indiana University
 Sanborn, Edgar Cummings, [N. H.].....U. S. Patent Office
 A.B., 1915, Dartmouth College
 *Schaffer, John Leinbach, [D. C.].....Navy Department
 Graduate 1908, U. S. Naval Academy
 Shepard, Donald D'Arcy, [D. C.].....429 Massachusetts Ave.
 *Snyder, Frank Righter, [Ill.].....Y. M. C. A.
 A.B., 1915, University of Michigan
 Stone, Clifford Fontaine, [Wis.].....1828 G St.
 *Stukes, Taylor Hudnall, [S. C.].....House Office Bldg.
 A.B., 1915, Washington and Lee University
 Stuwe, J. Daniel, [Minn.].....3913 Kansas Ave.
 B.S. in C.E., 1912, George Washington University
 *Sweeney, Richard Hurley, [Md.].....1314 L St.
 Mount St. Mary's College, Catholic University of America
 Taylor, Edward Curtis, [Mass.].....1338 Kenyon St.
 S.B., 1914, Massachusetts Institute of Technology
 Thorne, Harold Carrier, [Md.].....U. S. Patent Office
 George Washington University
 *Volstead, Laura Ellen, [D. C.].....The Brighton
 LL.B., February 1918, George Washington University

- *Watson, Robert Clement, [D. C.].....513 McGill Bldg.
C.E., 1913, Lehigh University; LL.B., February 1918, George Wash-
ington University
Weikert, Gerald Vernell, [D. C.].....The Woodworth
Wood, Richard Francis, [D. C.].....3301 Highland Pl.
C.E., 1915, Lehigh University
*Worrell, Frederick Houston, [Pa.].....1416 N St.
Litt.B., 1914, Rutgers College

CANDIDATES FOR DEGREE OF MASTER OF LAWS

- *Branch, Hilarion Noel, [Mexico].....2233 18th St.
LL.B., 1915, George Washington University
Burchfield, William Eden, [D. C.].....4429 Georgia Ave.
LL.B., 1916, George Washington University
Burrows, Tremaine Kellogg, [N. Y.].....6902 5th St.
A.B., 1897, University of Nebraska; LL.B., February 1917, George
Washington University
Clark, Marion, [Md.].....1657 Lamont St.
A.B., 1901, A.M., 1904, Western Maryland College; LL.B., 1916,
George Washington University
*De Agüero, Manuel, [Cuba].....Department of Justice
LL.B., 1917, George Washington University
*Fast, Arthur Herman, [Kans.].....1829 19th St.
A.B., 1909, Baker University, LL.B., 1912, University of Kansas.
*Freyer, Frank Barrows, [D. C.].....Navy Department
Graduate 1902, U. S. Naval Academy; LL.B., 1914, George Wash-
ington University
*Haines, George Louis, [D. C.].....622 Quebec Pl.
LL.B., 1917, George Washington University
*Halper, Jacob Nathan, [Conn.].....1017 12th St.
LL.B., Fordham University Law School.
†Hill, Charles Albert, [Cal.].....Y. M. C. A.
A.B., 1913, J.D., 1916, Leland Stanford University.
James, Joseph Pierson, [Cal.].....1460 Belmont St.
Leland Stanford University; LL.B. 1916, George Washington Uni-
versity
†Marshall, Charles Orr, [Neb.].....U. S. Patent Office
University of Omaha; LL.B., February 1918, George Washington
University
*Merced, Felino Lorenzo, [P. I.].....1215 I St.
University of the Philippines; Indiana University; LL.B., 1917,
University of Indiana
*Power, Edward, [N. Y.].....2004 F St.
LL.B., 1914, College of Law, University of the Philippines
Salsbury, Maurice E., [Ohio].....905 N St.
University of Cincinnati; LL.B., 1917, Cincinnati Law School.
*Stovall, Bates Mitchell, [D. C.].....The Cecil
LL.B., 1917, George Washington University
*Taylor, Harry S., [Ind.].....The Euclid
LL.B., 1917, George Washington University
*Wham, Fred Louis, [Ill.].....1741 Lanier Pl.
LL.B., 1909, University of Illinois
Wilkins, Andrew Clifford, [Ill.].....Interstate Commerce Commission
State University of Illinois, LL.B., February 1917, George Wash-
ington University.

SPECIAL STUDENTS

*Adikes, John, [N. Y.].....	1004 M St.
Allen, Charles Risdon, [D. C.].....	1912 1st St.
Anderson, Ernest Gustaf, [Minn.].....	1741 G St.
†Anderson, Martin E., [Md.].....	U. S. Patent Office
E.E. 1901, University of Minnesota; LL.B., 1914, National University Law School	
†Binney, Eric A., [Mo.].....	3903 Georgia Ave.
E.E., 1911, School of Technology, Winterthur, Switzerland.	
*Bledsoe, Harrison Warren, [Kans.].....	1105 K St.
Blehr, Francis Morris, [Minn.].....	1121 I St.
†*Bowen, Seth Thomas, [Miss.].....	1230 6th St.
Cantor, Louis, [N. Y.].....	1320 L St.
Polytechnic Institute of Brooklyn.	
*Day, Carl T., [Me.].....	1319 Park Rd.
*De Vaughan, William Aloysius, [Va.].....	209 N. Royal St., Alexandria, Va.
Dodson, Frederick William, [D. C.].....	1319 N St.
B.S. in Chem., 1917, Massachusetts Institute of Technology	
Duce, Edna, [Md.].....	House Office Bldg.
*Duplan, Oscar E., [Mexico].....	1413 I St.
†Floyd, Pauline Margaret, [Ark.].....	913 M St.
*†Freudberg, Leopold Victor, [D. C.].....	Evans Bldg.
George Washington University	
†Heiman, Herbert Jacob, [Okla.].....	1444 Belmont Ave.
†Hoyt, Homer, [Ill.].....	1500 13th St.
A.B., Feb. 1913, A.M., Nov. 1913, University of Kansas	
†Kennedy, George William, [D. C.].....	4413 8th St.
*Kidwell, Leona Evelyn, [Va.].....	1323 Quincy St.
Knotts, Morgan Kingory, [W. Va.].....	4127 Illinois Ave.
University of West Virginia; George Washington University	
*Luther, Thomas Don, [N. C.].....	118 Maryland Ave. N.E.
†Lyttle, Bertha Drusilla, [Ky.].....	3546 New-Hampshire Ave.
Mayers, Lewis, [N. Y.].....	1215 10th St.
A.B., 1910, College of the City of New York; A.M., 1912, University of Wisconsin; Ph.D., 1914, Columbia University	
Raine, Wendell Phillips, [Pa.].....	1731 S St.
B.S. in E.E., 1907, M.A., 1911, University of Pennsylvania	
†Smith, Archibald, [Ind.].....	U. S. Patent Office
B.S., 1903, M.S., 1906, Ohio Northern University	
*Tashof, Ivan Poppers, [Ky.].....	918 F St.
E.M., 1912, Columbia University; LL.B., 1916, University of Kentucky; LL.M., 1917, George Washington University	
Thomas, William L., [D. C.].....	225 Virginia Ave. S.E.
*Willits, George Hughes, [Pa.].....	108 15th St. N.E.
George Washington University	

SUMMARY

Candidates for Degree of Bachelor of Laws	
First Year.....	157
Second Year.....	67
Third Year.....	79
Total.....	303

Candidates for Degree of Master of Laws.....	19
Total.....	322
Counted twice.....	1
Total candidates for degrees.....	321
Special students.....	29
Total all students.....	350
Candidates for degrees who are college graduates.....	102
Percentage.....	31.8
Candidates for degrees who have had all or part, of a college course	191
Percentage.....	59.6

COLLEGE GRADUATES, CANDIDATES FOR DEGREES

Baker University.....	1	Minnesota University of.....	2
Bowdoin College.....	1	Missouri Valley College.....	1
Brown University.....	1	Nebraska, University of.....	2
California, University of.....	1	Ohio State University.....	4
Case School of Applied Science	2	Oklahoma, University of.....	1
Central Normal College of		Philippines, University of the	1
Indiana.....	1	Polytechnic Institute of	
Clarkson College of Tech-		Brooklyn.....	1
nology.....	1	Princeton University.....	1
Colby College.....	1	Randolph-Macon College.....	1
College of the City of New		Rensselaer Polytechnic In-	
York.....	2	stitute.....	2
Colorado, University of.....	1	Rutgers College.....	1
Columbia University.....	1	St Joseph's College.....	1
Cooper Union.....	2	St Michael's College.....	1
Cornell University.....	6	St Paul's College.....	1
Dartmouth College.....	2	Soochow University.....	1
Ewing College.....	1	Swarthmore College.....	1
Fordham University.....	1	Union College.....	2
Georgetown College.....	1	U S Naval Academy.....	2
George Washington University	9	University of the South.....	1
Georgia, University of.....	1	Vanderbilt University.....	1
Harvard University.....	5	Villanova College.....	1
Illinois, University of.....	2	Virginia Polytechnic Institute	1
Indiana University.....	1	Wabash College.....	1
Iowa State College.....	1	Washington and Lee Uni-	
Iowa, State University of.....	3	versity.....	2
Johns Hopkins University.....	2	Wellesley College.....	1
Kansas, University of.....	1	Western Maryland College....	1
Lafayette College.....	1	Wisconsin, University of.....	1
Lehigh University.....	3	Yale University.....	3
Leland Stanford University...	2		
Maryland State College.....	1		105
Massachusetts Institute of		Counted twice.....	3
Technology.....	5		
Michigan, University of.....	4	Total.....	102

NATIONAL COLLEGE OF PHARMACY

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHARMACY

Freshman

Bell, Stanley W., [Ohio].....	1325 1st St. N.W.
Forbes, George H., [D. C.].....	150 U St. N.W.
Golden, Emmel, [Miss.].....	Soldiers Home, D. C.
Jackson, Hunter L., [Va.].....	816 Randolph St. N.W.
Lynch, Merrill C., [Va.].....	14th and Vermont Ave. N.W.
Lynch, Marcus F., [D. C.].....	128 E Capitol St.
Sands, Frederick A., [D. C.].....	410 11th St. N.E.
Wiezolowski, Francis W., [Pa.].....	3508 O St. N.W.

Juniors

Fegan, Frances Elizabeth, [D. C.].....	493 H St. S.W.
Fuhrman, Wallace J., [D. C.].....	724 E Capitol St.
Warfield, Vernon N., [Va.].....	20 S. Fairfax St., Alexandria, Va.

Seniors

Burley, Allan R., [Va.].....	401 Shepherd St. N.W.
Bowman, Clayton L., [Va.].....	609 S. Washington St., Alexandria, Va.
Dement, William E., [D. C.].....	619 North Carolina Ave. S.E.
Flemer, Henry L., [D. C.].....	2481 18th St. N.W.
Glycofrides, Ellis E., [D. C.].....	922 9th St. N.W.
Linhos, Elon F., [Va.].....	17th and H Sts. N.W.
Nugent, Francis X., [Va.].....	Alexandria, Va.
Schwartz, Martin S., [N. Y.].....	St. Elizabeth, D. C.
Swoboda, Chas. Al., [Bohemia].....	1319 First Ave., New York City

SUMMARY

Freshmen.....	8
Juniors.....	3
Seniors.....	9
	<hr/>
	20

COLLEGE OF VETERINARY MEDICINE

CANDIDATES FOR THE DEGREE OF DOCTOR OF VETERINARY MEDICINE

Freshmen

Allen, Rudolph Spires, [Md.]	College Pk., Md.
Brauner, Victor, [D. C.]	147 Quincy Pl. N.E.
Dibbell, Edgar Beggs, [Ohio]	2115 14th St., N.W.
Iden, George William, [Va.]	620 B St. S.W.
Larsen, Archie John, [Wis.]	1236 11th St.
Lowe, Herbert Alexander, [Ind.]	Y. M. C. A.
Meers, Karl J., [Ky.]	935 New York Ave.
Niebuhr, Louis William, D.D.S., [Wis.]	1214 I St. N.W.
Nicholson, Ralph A., [Mass.]	1747 Columbia Rd.
Patton, John Wesley, [N. Y.]	Ebbitt House
Weadon, Francis Mason, Jr., [D. C.]	2114 1st St.
Weedon, William Raymond, [D. C.]	The Alabama
Wells, John Raymond, [Va.]	2115 14th St.

Sophomore

Barney, Joseph Clement, [Mass.]	2115 14th St.
Clark, John Edward, [Md.]	2113 14th St.
Evans, Harley Parker, [D. C.]	1240 New Jersey Ave.
Fribourg, Robert Davis, [N. J.]	441 7th St. S.W.
Greene, Rudolph, [Ill.]	2115 14th St.
Heath, George E. C., [D. C.]	1657 Montello Ave. N.E.
Lockwood, Charles Raymond, [D. C.]	416 N St.
Mohler, William M., [D. C.]	1620 Hobart St.
Moskey, Henry Eugene, [D. C.]	2501 Pennsylvania Ave.
Rubino, Frank, [D. C.]	631 2d St.
Schaefer, John W., [Va.]	420 Columbia Rd.
Shilling, Leo Leland, [Okla.]	Mt. Rainier, Md.
Siegel, Eli, [N. Y.]	721 8th St. N.W.
Tabachnick, Louis, [N. Y.]	721 8th St. N.W.

Junior

Baessell, Norman, [D. C.]	709 Columbia Rd.
Bengel, William Godman, [D. C.]	3530 Warder St.
Biester, Harry Edward, [Pa.]	22 2d St. N.E.
Carl, John Clarence, [N. C.]	1929 35th St.
Dawson, Harry Hampden, [Va.]	105 2d St. N.E.
Dodge, Walter Spencer, [D. C.]	742 Rock Creek Church Rd.
Drinkwater, Louis Percival, [Me.]	706 20th St.
Fell, Thomas Buckley, [Wash.]	931 K St.
Foster, Winthrop Davenport, [Mass.]	6006 33d St.
Gehres, Jacob Zirby, [Pa.]	1224 13th St.
Khuen, Edward Charles, [D. C.]	119 G St.
Kritt, Abe, [D. C.]	2147 P St.
Magens, Hans Juergen, [N. Y.]	Soldiers Home
Melvin, Fordyce Harriman, [D. C.]	1751 Park Rd.
Mims, Malcus Carson, [N. C.]	1121 I St.
Newman, Raymond W., [Cal.]	1401 Massachusetts Ave.
Phillips, Charles Latimer, [Va.]	723 Euclid St.

Senior

Chase, Lester Gilbert, [Me].....	1403 12th St.
Criswell, Lindsay Leland, [Ind.].....	508 B St. N.E.
Dennewitz, Homer Arresta, [Ohio].....	Y. M. C. A.
Haas, Joseph Peter, [Pa.].....	927 New York Ave.
Hines, Laurence Irwin, [Neb.].....	215 9th St. S.W.
Kelser, John Oscar, [D. C.].....	231 14th St. N.E.
Lanahan, Frank Robert, [D. C.].....	1119 K St. N.E.
Lawych, Louis, [D. C.].....	1102 6th St. N.W.
Ocantos, J. Cato, [Argentine].....	2115 14th St. N.W.
Oyster, Francis Larmour, [D. C.].....	612 East Capitol St.
Price, Emmett William, [W. Va.].....	1416 Clifton St.
Seymour, Walter Eugene, [O.].....	914 Massachusetts Ave.
Wessell, Francis Henry, [Conn.].....	718 18th St.

SUMMARY

Freshmen.....	13
Sophomores.....	14
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GEOGRAPHICAL DISTRIBUTION

Alabama.....	8	Oregon.....	12
Arizona.....	3	Pennsylvania.....	111
Arkansas.....	8	Rhode Island.....	7
California.....	26	South Carolina.....	5
Colorado.....	15	South Dakota.....	5
Connecticut.....	21	Tennessee.....	25
Delaware.....	2	Texas.....	26
District of Columbia.....	926	Utah.....	18
Florida.....	5	Vermont.....	8
Georgia.....	11	Virginia.....	93
Idaho.....	9	Washington.....	11
Illinois.....	60	West Virginia.....	13
Indiana.....	27	Wisconsin.....	29
Iowa.....	28	Wyoming.....	3
Kansas.....	23	Africa.....	1
Kentucky.....	16	Argentina.....	1
Louisiana.....	8	Bohemia.....	1
Maine.....	18	Canada.....	1
Maryland.....	94	Central America.....	4
Massachusetts.....	69	China.....	8
Michigan.....	34	Cuba.....	1
Minnesota.....	31	France.....	2
Mississippi.....	10	Greece.....	2
Missouri.....	23	Hawaii.....	1
Montana.....	3	Holland.....	1
Nebraska.....	23	Japan.....	3
New Hampshire.....	8	Mexico.....	3
New Jersey.....	63	Philippine Islands.....	7
New Mexico.....	1	Persia.....	1
New York.....	140	Porto Rico.....	10
North Carolina.....	13	Russia.....	1
North Dakota.....	8	Switzerland.....	1
Ohio.....	55		
Oklahoma.....	10		
			2217

GENERAL SUMMARY

TEACHING STAFF

(Omitting Faculties of Associated Colleges)

In many instances members of the Teaching Staff give only part time to the University:

Professors.....	82
Associate Professors.....	12
Associates.....	15
Assistant Professors.....	20
Lecturers and Instructors.....	88
Assistants and Demonstrators.....	42

Total..... 259

STUDENTS REGISTERED IN THE UNIVERSITY DURING 1917-18

Department of Arts and Sciences

School of Graduate Studies.....	145
Columbian College.....	864
College of Engineering.....	391
Teachers College.....	181

1581

Duplicates 7 1574

Professional Schools

Medical School.....	109
Dental School.....	152
Law School.....	350

611

Associated Colleges

National College of Pharmacy.....	20
College of Veterinary Medicine.....	57

77

2262

Duplicates..... 45

2217

Summer School, 1917..... 213

DEGREES CONFERRED AT COMMENCEMENT, 1917

HONORARY

Doctor of Laws

William Miller Collier
Theodore Williams Noyes

Doctor of Science

George Perkins Merrill
Elmer Ernest Southard
Arthur Powell Davis
Frederick Fuller Russell

IN COURSE

Doctor of Philosophy

Alfred Blumberg.....	Montana
M.Ph., 1905, Royal Francis Joseph University, Hungary; Phar.D.,	
1916, George Washington University	
Robert Waitman Clothier.....	District of Columbia
S.B., 1897, S.M., 1899, Kansas State Agricultural College	
Louis George Connor.....	District of Columbia
S.B., 1910, S.M., 1913, Wesleyan University; M.S.A., 1912, Cornell	
University	
Leonard Lee Harter.....	District of Columbia
A.B., 1903, A.M., 1906, University of Nebraska	
Harry Lawrence Ice.....	Maryland
A.B., 1912, A.M., 1912, Bethany College	
William Dwight Pierce.....	District of Columbia
A.B., 1904, A.M., 1907, University of Nebraska	
Mary Jane Rathbun.....	District of Columbia
A.M., 1916, University of Pittsburgh	
Charles Elmer Resser.....	Pennsylvania
A.B., 1913, Franklin and Marshall College; A.M., 1915, George	
Washington University	
Ruric Crelgan Roark.....	Kentucky
A.B., 1907, University of Cincinnati; A.M., 1908, University of	
Illinois	
John William Roberts.....	District of Columbia
A.B., 1904, A.M., 1909, University of Nebraska	
Arthur William Sampson.....	Nebraska
S.B., 1907, A.M., 1908, University of Nebraska	

Master of Arts

- Arthur Emil Albrecht.....New York
A.B., 1916, City College, New York City
- Olivia Lorena Boettcher.....District of Columbia
A.B., 1916, Washington Missionary College
- Daniel LeRay Borden.....District of Columbia
M.D., 1912, B.S. in Med., 1916, George Washington University
- Phoebe Burritt.....District of Columbia
A.B., 1912, Wilson College
- Johannes Paul Caemmerer.....Wisconsin
A.B., 1916, George Washington University
- Walter Sylvanus Deffenbaugh.....District of Columbia
A.B., 1898, West Virginia University
(With the Master's Diploma in Education)
- Levi Feigenberg.....New York
Diploma, 1907, Imperial University of Kiev
- Ewart William Hobbs.....District of Columbia
A.B., 1916, George Washington University
- Oscar Benwood Hunter.....District of Columbia
M.D., 1912, A.B., 1916, George Washington University
- Louis Eugene McArthur.....Utah
B.Pd., 1897, Brigham Young University; A.B., 1916, George Washington University
(With the Master's Diploma in Education)
- Wellington Patrick.....Oklahoma
A.B., 1915, George Washington University
(With the Master's Diploma in Education)
- Elon Galusha Salisbury.....District of Columbia
S.B., 1911, Union College, Nebraska
(With the Master's Diploma in Education)
- Harriet Underwood.....District of Columbia
A.B., 1913, George Washington University

Master of Science

- Harry Percy Barrows.....District of Columbia
S.B., 1911, Utah Agricultural College
(With the Master's Diploma in Education)
- George von Pullinger Davis.....District of Columbia
M.D., 1910, B.S. in Med., 1915, George Washington University
- James Alexander Gamble.....District of Columbia
Graduate, 1909, Connecticut Agricultural College
- Dudley Hopkins Grant.....Illinois
S.B., 1914, University of Chicago
- Otto Marion John.....District of Columbia
A.B., 1908, Union College

William Canfield Lee.....	Kansas
A.B., 1896, Kenyon College	
Guy Turner Morris.....	Missouri
M.E., 1912, Cornell University	
Harry Mance Roeser.....	Illinois
S.B., 1914, Oklahoma Agricultural and Mechanical College	

Electrical Engineer

Curtis Edgar McCalip.....	Maryland
B.S. in E.E., 1912, George Washington University	
Howard Palmer Safford.....	District of Columbia
B.S. in E.E., 1912, George Washington University	

Bachelor of Arts

George Percy Barse.....	Maryland
(With distinction)	
John Shively Bixler.....	Pennsylvania
Norma Bose.....	District of Columbia
May Hovencamp Boteler.....	District of Columbia
(With distinction)	
Marian Augusta Brooks.....	District of Columbia
Alexander Wallace Bruce.....	Ohio
Adele Sidney Burleson.....	Texas
Loyzelle Josephine Callihan.....	Arkansas
Morris Catzva.....	District of Columbia
M.D., 1916, George Washington University	
Marguerite Perry Clark.....	District of Columbia
David McKee Conway.....	District of Columbia
William Ellyson Currie.....	Virginia
David Davis.....	District of Columbia
Dorothy May Davis.....	District of Columbia
Newell Windom Ellison.....	Tennessee
Gertrude Catherine Fogerty.....	District of Columbia
(With distinction)	
Tully Charles Garner.....	Texas
Alexander Maxwell Hamburg.....	New York
Margaret Boude Hardy.....	District of Columbia
Ollie Lee Lewis.....	Kentucky
(With distinction)	
Rebecca Laurens Love.....	Virginia
Katherine Lyons.....	District of Columbia
Thomas William McCormack.....	Pennsylvania
Karl Willett Miller.....	District of Columbia
(With distinction)	
Norman Justin Nelson.....	North Dakota

Meta Amelia Neumann.....	District of Columbia
(With distinction)	
Ella Catherine Overstreet.....	South Carolina
Lois Emma Peirce.....	District of Columbia
Fay Elizabeth Pierce.....	District of Columbia
(With distinction)	
Emma Reh.....	District of Columbia
Albert Thurston St. Clair.....	District of Columbia
(With distinction)	
George J. Schulz.....	District of Columbia
Theodosia Darling Seibold.....	District of Columbia
Carl Francis Snyder.....	District of Columbia
Wilmer Franklin Stickle.....	New Jersey
Florence Jackson Stoddard.....	District of Columbia
Earl Taggart.....	Kansas
Lisle Thomas.....	Michigan
Elizabeth Webb Wilson.....	District of Columbia
(With distinction)	
Yuen Su Wong.....	China
Su-Ying Chiao Wu.....	China
Wallace Mason Yater.....	District of Columbia
(With distinction)	

Bachelor of Arts and Bachelor's Diploma in Education

Elizabeth Caroline Beller.....	District of Columbia
Mary Ellen Bontz.....	Virginia
(With distinction)	
Alta Costen.....	Maryland
Harriet Dayton Eldridge.....	North Carolina
Frances Louise Evarts.....	District of Columbia
Susan Helen Gardner.....	District of Columbia
Mary Maud-Greenwood.....	District of Columbia
(With distinction)	
Wilhelmine Cornelia Hartmann.....	District of Columbia
Gladys Lenore Helgesen.....	North Dakota
Dorothy Hellman.....	Wyoming
(With distinction)	
Elizabeth Alice Hummer.....	District of Columbia
(With distinction)	
Elmer Louis Kayser.....	District of Columbia
Mary Lee Kimball.....	Massachusetts
Ruby Nevins.....	District of Columbia
Mary Anne Newcomb.....	District of Columbia
Ida Belle Patterson.....	Virginia
Felicia Ann Reeve.....	District of Columbia

Mabel Alida Robey.....	Maryland
Emma Ruth Tiffany.....	District of Columbia
Emma May Van Doren.....	District of Columbia
Bessie Whitford.....	District of Columbia
(With distinction)	

Bachelor of Science in Chemistry

William Augustus Boyle.....	New York
Claude Royal Breneman.....	Pennsylvania
Justin P. Diesman.....	Kentucky
Abraham Joseph Finks.....	Maine
Florence Marian Ford.....	Delaware
(With distinction)	
Raymond Albert Heindl.....	Wisconsin
Helen Gladys Kain.....	District of Columbia
Theresa Karger.....	District of Columbia
Russell Barker Munroe.....	District of Columbia
S.B., 1911, University of Pennsylvania	
E.E., 1912, George Washington University	
Reuben Schmidt.....	District of Columbia
James Lawrence Young.....	District of Columbia

Bachelor of Science in Medicine

Glen Marion Kennedy.....	District of Columbia
--------------------------	----------------------

Bachelor of Science in Civil Engineering

Nathan Abramson.....	District of Columbia
Seth Thomas Bowen.....	Ohio
Charles Bailey Richard.....	District of Columbia

Bachelor of Science in Electrical Engineering

Melvin Ferdinand Fischer.....	District of Columbia
-------------------------------	----------------------

Bachelor of Science in Mechanical Engineering

William Stubbs James.....	District of Columbia
(With distinction)	
George Samuel Pope.....	District of Columbia
Frank Thomas Richard.....	District of Columbia
Francis Albert Woodward.....	District of Columbia

Doctor of Medicine

Boyce Richardson Bolton.....	District of Columbia
Victor McMurray Brian.....	Illinois
Ralph Harold Davis.....	New York
Dorrell Ghio Dickerson.....	District of Columbia
George Brackett Dowling.....	District of Columbia
(With distinction)	

James McNelledge Fadeley.....	Virginia
Charles Rock Frischkorn.....	District of Columbia
William Tignor Gill, Jr.....	District of Columbia
(With distinction)	
Robert John Gordon.....	Wisconsin
Bertram Groesbeck, Jr.....	District of Columbia
Henry Gilbert Hadley.....	New York
(With distinction)	
William Herbert Haupt.....	South Africa
Darwin Hecht.....	New York
Myer Jerome Herschman.....	District of Columbia
Clifford Gentner Hines.....	District of Columbia
James Edwin Houghton.....	District of Columbia
Glen Marion Kennedy.....	Georgia
(With distinction)	
Jacob Kotz.....	District of Columbia
Jesse Thomas Mann.....	District of Columbia
Wilbur Oscar Manning.....	District of Columbia
Robert Bartle Miller.....	District of Columbia
William Campbell Miller.....	District of Columbia
Howard Howlett Montgomery.....	Maryland
Louis Eugene Mueller.....	Wisconsin
Zygmund Anthony Oborski.....	Pennsylvania
Israel Sabine Otis.....	Connecticut
David B. Peters.....	Virginia
Phar.D., 1910, George Washington University	
Richard Covert Sattellee.....	Illinois
Francis George Speidel.....	District of Columbia
(With distinction)	
John Henry Stakneviech.....	New Jersey
Raymond Bernard Storch.....	District of Columbia
Earle Eugene Sullivan.....	New York
Jose Rosado Villamil.....	Porto Rico
Magdalena Wambsganhs.....	Germany

Nurses' Certificates

Ethel Alberta Bean.....	Maryland
Cora W. Fridley.....	District of Columbia
Alice Ellen G. Hayden.....	Maryland
Mary Belle Hooks.....	Tennessee
Sarah A. Snelson.....	North Carolina

Doctor of Dental Surgery

Clarence Basom Allen.....	Pennsylvania
Lawrer Winter Bowen.....	Colorado
Munn Quayle Cannon.....	Utah

S. Owen Claytor.....	Ohio
Edward John Copping.....	Maryland
Merle E. Donahey.....	Pennsylvania
Frank W. Douglas.....	Florida
John Leroy Elliott.....	Maryland
Milton Forman.....	Wisconsin
Leon Frost.....	Ohio
Patrick Gallagher.....	Ireland
George Francis Goetzman.....	Wisconsin
Seiichi Katayama.....	Japan
D.D.S., Tokyo Dental College, Japan.	
George Webster Lady.....	Ohio
Daniel Sumner Lockwood.....	Illinois
Leah Minkin.....	District of Columbia
William Irving Ogus.....	Massachusetts
Frank Gamewell Porter.....	Iowa
Claude M. Postlewait.....	Illinois
James Isaac Root.....	Michigan
Walter Francis Sullivan.....	Pennsylvania
Toshio Tahara.....	Japan
D.D.S., Tokyo Dental College, Japan	
Frederick Davis Woods.....	District of Columbia
Webb Watson Wyman.....	Ohio
Festy Yoakum.....	West Virginia

Bachelor of Laws

George Moritz Albrecht.....	Minnesota
Walter Richardson Alexander.....	Missouri
Elwyn Claude Babcock.....	District of Columbia
George Hearne Bacon.....	Delaware
A.B., 1910, Delaware College	
Branch Bird.....	Kentucky
William Shock Boteler.....	District of Columbia
Edwin Warfield Broome.....	Maryland
Wilmarth Brown.....	District of Columbia
Frank Arthur Bull.....	Maine
B.F., 1914, Biltmore Forest School	
David Hoagland Cannon.....	Utah
(With distinction)	
Clarence Castimore.....	New York
A.B., 1912, Colgate University	
Philip LeRoy Collins.....	District of Columbia
Manuel De Agüero.....	Cuba
Donald Montgomery Earll.....	Maryland
A.B., 1916, George Washington University	

Philip Ershler.....	New York
Martin Tucker Fisher.....	District of Columbia
S.B., 1913, Harvard University	
Henry Bussey Floyd.....	Arkansas
Phar.D., 1908, George Washington University	
Elvans Diehl Haines.....	District of Columbia
George Louis Haines.....	District of Columbia
Frederick James Hardman.....	District of Columbia
B.S. in M. E., 1910, Case School of Applied Sciences	
Henry William Heine.....	District of Columbia
Lewis Orrin Hutchinson.....	Connecticut
A.B., 1910, Yale University	
(With distinction)	
Earl Munro Jeffrey.....	District of Columbia
A.B., 1914, George Washington University	
Oscar A. Johannesen.....	Idaho
(With distinction)	
William Ewing Kemp.....	Missouri
A.B., 1914, University of Missouri	
Neil Edwin Larkin.....	South Dakota
Edward Brooke Lee.....	Maryland
Albert Calder Mackay.....	Utah
A.B., 1915, University of Utah	
M. Manning Marcus.....	Wisconsin
Frederick W. Mielke.....	Idaho
William Cammack Miller.....	District of Columbia
A.B., 1911, Yale University	
Joseph Francis Moore.....	Maryland
Daniel Leigh Morris.....	District of Columbia
Logan Morris.....	Utah
A.B., 1910, University of Utah	
Elmer Pendell.....	New York
Norman Ticknor Raymond.....	District of Columbia
Charles Jesse Shaw.....	Iowa
Andrew Adelbert Smith.....	Wisconsin
B.S. in C.E., 1908, University of Wisconsin	
Adolphus Staton.....	North Carolina
Graduate 1902, U. S. Naval Academy	
Bates Mitchell Stovall.....	District of Columbia
Leslie James Tavener.....	New York
Edward Thomas Taylor, Jr.....	Colorado
A.B., 1915, University of Colorado	
Harry S. Taylor.....	Indiana
(With distinction)	
Perry E. Taylor.....	Texas
Kennard Nottingham Ware.....	West Virginia

THE UNIVERSITY

Master of Laws

John Edgar Hoover.....	District of Columbia
LL.B., 1916, George Washington University	
Willis Ellsworth Monty.....	Vermont
LL.B., 1916, George Washington University	
P. Gad Bryan Morehouse.....	District of Columbia
LL.B., 1916, George Washington University	
Ivan Peppers Tashof.....	Kentucky
E.M., 1912, Columbia University	
LL.B., 1916, University of Kentucky	

Doctor of Pharmacy

George Roosevelt Flemer.....	District of Columbia
Theodore John Heller.....	District of Columbia
Walter Benton Norris.....	Maryland
Peter Joseph Pajewski.....	Russia
William Alfred Turner Stewart.....	Idaho
Li-Ta Tong.....	China
Thomas Franklin Williams.....	Virginia

Doctor of Veterinary Medicine

Ralph Henry Lewis.....	Maryland
Robert Lee Nichols.....	Maryland
Walter Clyde Pulsifer.....	New Hampshire
Howard Mayo Savage.....	Oklahoma
A.B., 1899, College of Emporia	
(With distinction)	
Claude Thigpen.....	Alabama
Willard Hull Wright.....	Ohio
(With distinction)	

AT OCTOBER CONVOCATION, 1917

IN COURSE

Bachelor of Science in Chemistry

Lewis Adolphus Paley

Doctor of Medicine

Everell Verni Chadwick

Edward William Mulligan

Louis Henry Ritzhaupt

Doctor of Dental Surgery

George Leroy Lansdale

Arthur William Shea

Bachelor of Laws

Henry Bascom Morrow, Jr.

AT WINTER CONVOCATION

IN COURSE

Mechanical Engineer

Ernest Dean Walen

Bachelor of Arts

Sum Nung Au-Young
Elizabeth Aileen Davis
Harry Kryger Harring
Margaret Helena Harvey
Peter Hidnert
George Henry Paltridge
Talma L. Smith
Eleanor Winifred Stanton
Warren Jennison Willis

Bachelor of Arts and Diploma in Education:

Mary Evelyn Steger

Bachelor of Laws

Andrew Jackson Banks
Ernest L. Chamberlain
Harry Stambaugh Demaree
Samuel John Flickinger
Luther H. Heist
Charles Orr Marshall
(With distinction)
Laura Ellen Volstead
Robert Clement Watson

ALLIED ASSOCIATIONS

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MRS. JOSHUA EVANS

FRANK STETSON

DR. FRANK A. HORNADAY

Secretary

ELMER L. KAYSER

Treasurer

JOHN B. LARNER

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HARRY C. DAVIS, *Chairman*

ELMER L. KAYSER, *Secretary*

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DR. ROMULUS A. FOSTER

DR. PERCIVAL HALL

DR. FRANK A. HORNADAY

DR. O. B. HUNTER

DR. R. A. KELSER

STEPHEN E. KRAMER

JOHN B. LARNER

MISS CORA OSSIRE

DR. F. H. K. REYNOLDS

MISS M. H. RICHARDSON

OGLE R. SINGLETON

FRANK STETSON

MISS JULIA H. STROEBEL

DR. MILLARD F. THOMPSON

W. C. VAN VLECK

MISS ALBERTA WALKER

DR. G. E. WHITE

DR. T. ROLAND WILKERSON

FRANCIS A. WOODWARD

Since its organization in 1821, the University has conferred 9033 degrees upon 7391 persons.

The Secretary of the General Alumni Association, whose office is at the University, endeavors to keep a list of the addresses of all Alumni. His catalogue now contains the addresses of about 4500 graduates. It is known that about 1500 are dead, and information is lacking in regard to the others. All alumni are urged to keep the Secretary informed of any change of address or occupation, and to supply information in regard to their fellow Alumni.

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Vice-Presidents

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Treasurer

GEORGE W. DALZELL

Secretary

WILLIAM C. VAN VLECK
New Masonic Building

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President

MRS. WILLIAM C. VAN VLECK

First Vice-President

MRS. J. WILMER LATIMER

Second Vice-President

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Corresponding Secretary

MISS MARGARET A. BROWNE

Recording Secretary

MISS FRED A EGBERT

Treasurer

MISS ANNA S. HAZELTON

Historian

MISS FLORENCE FRISBY

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HOSPITAL

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MRS. MILLARD F. THOMPSON

Corresponding Secretary

MISS RUTH P. LARNER

Recording Secretary

MRS. WILLIAM F. NORRIS

Treasurer

MRS. SAMUEL E. LEWIS

Assistant Treasurer

MRS. WALLACE MCK. STOWELL

DIRECTORY

OFFICERS OF GOVERNMENT, ADMINISTRATION AND INSTRUCTION

The number enclosed in brackets indicates the page in this catalogue on which may be found the degree and title of the officer.

ABBE, T. [16].....	3203 R St.
ACKER, G. N. [14].....	913 16th St.
ADAMS, L. H. [2].....	1637 Harvard Terrace
ALBION, M. S. [19].....	1814 G Street, Apt. 1½
ALDEN, L. R. [17].....	Union Trust Bldg.
ALLEN, R. F. [21].....	1460 Munroe St.
ARZBERGER, E. G. [20].....	708 19th St.
BARNES, N. P. [15].....	Arlington Hotel
BARTSCH, P [15].....	U. S. National Museum
BASSETT, C. T. [16].....	1409 L St.
BASSLER, R. S. [16].....	U. S. National Museum
BEEKMAN, D. D. [17].....	Professional Bldg.
BENTON, R. W. [20].....	1424 R St.
BERNHARD, J. W. [17].....	710 14th St.
BEYER, H. C. [10].....	The Marlborough
BIBB, A. B. [15].....	1801 K St.
BINGMAN, C. E. [20].....	
BLOEM, J. H. [21].....	Federal Trade Commission
BORDEN, D. L. [17].....	The Rochambeau
BORDEN, W. C. [15].....	2306 Tracy Pl.
BOVEE, J. W. [14].....	The Rochambeau
BOWEN, W. L. [21].....	1654 Hobart St.
BOWEN, W. S. [16].....	The Rochambeau
BRADBURY, W. H. [181].....	The Haddington
BRADLEY, E. M. [21].....	Falkstone Courts
BRANDENBURG, E. C. [15].....	1824 Calvert St.
BRATTAIN, P. H. [21].....	420 10th St. N.E.
BRACHT, N. D. [20].....	609 22nd St.
BRIGHAM, G. R. [19].....	Smithsonian Institution
BROWN, BEDFORD [18].....	806 17th St.
BROWN, T. B. [18].....	2142 O St. Apt. 5
BUCKINGHAM, D. E. [187].....	2113 14th St.
BUCKLEY, S. S. [187].....	College Park, Md.
BURGHER, V. A [181].....	808 I St.

BUTLER, W. K. [15].....	1207 M St.
CALL, A. D. [19].....	1640 Newton St.
CAMPBELL, C. B. [181].....	1731 Lamont St.
CAMPBELL, F. B. [181].....	4203 Georgia Ave.
CARDWELL, A. M. [21].....	608 F St. N.E.
CARMICHAEL, R. B. [14].....	818 17th St.
CARR, W. B. [19].....	1624 I St.
CARR, W. P. [16].....	Kendrick Apt. House
CARROLL, MITCHELL [15].....	1940 Biltmore St;
CHAPMAN, R. M. [20].....	St. Elizabeth's Hospital
CHEYNEY, W. J. [21].....	West Falls Church, Va.
CHIPMAN, C. N. [18].....	1529 I St.
CHURCH, M. [10].....	1608 20th St.
CHURCHILL, G. M. [18].....	Library of Congress
CLARKE, F. W. [14].....	1717 20th St.
CLAYTON, H. T. [187].....	2113 14th St.
CLAYTOR, S. O. [20].....	1504 Columbia Rd.
CLAYTOR, T. A. [14].....	1826 R St.
CLEPHANE, W. C. [15].....	Wilkins Bldg.
COBB, R. [16].....	2324 California St.
COHEN, L. [16].....	1855 Calvert Pl.
COHEN, R. [20].....	439 M St.
COLLIER, C. S. [18].....	New Berne Apt.
COLLIER, W. M. [12] [19].....	Auburn, N. Y.
CONBOYE, W. T. [21].....	64 U St.
CONKLIN, C. B. [17].....	1344 R St.
COPELAND, E. P. [17].....	The Rockingham
COUTINHO, J. S. [16].....	Pan-American Union
COX, O. C. [19].....	1800 K St.
CROISSANT, D. C. [16].....	1717 Q St.
CULLOM, E. [19].....	1433 Rhode Island Ave.
CURTIS, H. L. [19].....	U. S. Bureau of Standards
DAVIS, C. L. [16].....	The Albermarle
DAVIS, H. C. [10].....	1929 18th St.
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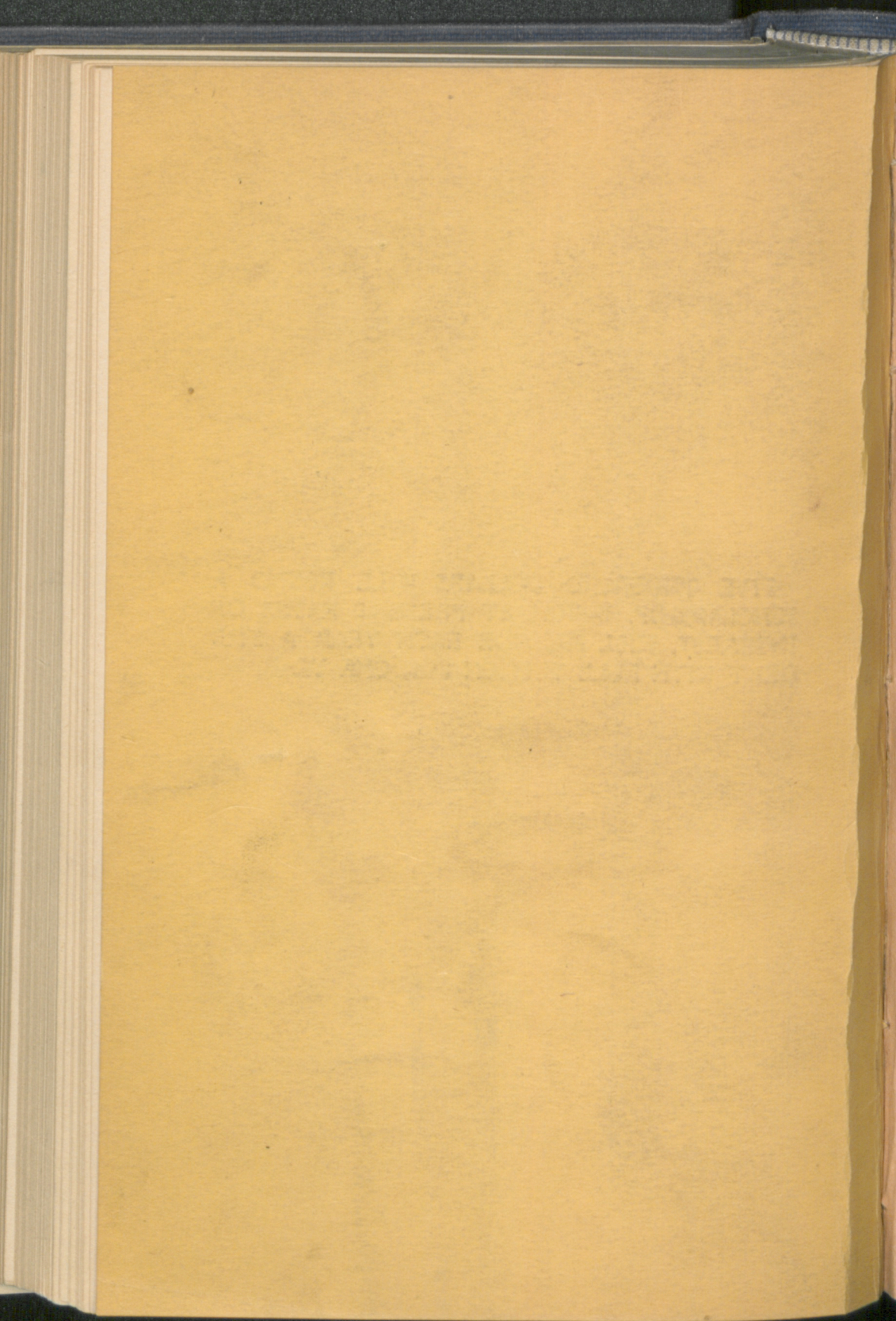
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FIVE THOUSAND DOLLARS WILL FOUND A
SCHOLARSHIP, WHICH, AT PRESENT RATES OF
INTEREST, WILL PROVIDE EACH YEAR A STU-
DENT WITH FULL TUITION FOR ONE YEAR.



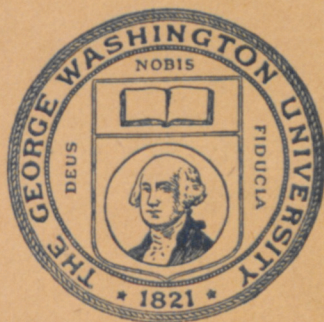
VOLUME XVII

NUMBER 2

George Washington University Bulletin

George Washington's Will
AND
George Washington University

By
WM. MILLER COLLIER



JUNE, 1918

PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C., MARCH,
JUNE, OCTOBER AND DECEMBER

Entered October 6th, 1904, at Washington, D. C., as second-class
matter under Act of Congress of July 16th, 1894

George Washington's Will

AND

George Washington University

By
WM. MILLER COLLIER

The establishment of a University in the National Capital was one of the desires most strongly entertained by George Washington. From the moment that the Constitution was adopted until the hour of his death he continually championed the idea, repeatedly bringing the matter to the attention of Congress. In his last will and testament he left a legacy for such an institution if ever created. The provisions of the paragraphs relating to it are of such interest that it is proper to quote them.

ITEM—Whereas by a law of the Commonwealth of Virginia, enacted in the year 1785, the Legislature thereof was pleased (as an evidence of its approbation of the services I had rendered the public, during the Revolution—and partly, I believe, in consideration of my having suggested the vast advantages which the community would derive from the extension of its Inland navigation, under legislative patronage) to present me with one hundred shares, of one hundred dollars each, in the incorporated company established for the purpose of extending the navigation of James River from tide water to the mountains; and also with fifty shares of one hundred pounds sterling each in the corporation of another company likewise established for the similar purpose of opening the navigation of the River Potomac from tide water to Fort Cumberland; the acceptance of which, although the offer was highly honorable and grateful to my feelings, was refused, as inconsistent with a principle which I had adopted, and had never departed from, namely not to receive pecuniary compensation for any services I could render my country in it's arduous struggle with Great Britain for it's Rights; and because I had evaded similar propositions from other States in the Union—adding to this refusal however an intimation, that, if it should be the pleasure of the Legislature to permit me to appropriate the said shares to *public uses*, I would receive them on those terms with due sensibility—and this it having consented to in flattering terms, as will appear by a subsequent law and sundry resolutions, in the most ample and honorable manner, I proceed after this recital for the more correct understanding of the case to declare—

That as it has always been a source of serious regret with me to see the youth of these United States sent to foreign countries for the purpose of education, often before their minds were formed or they had imbibed any adequate ideas of the happiness of their own, contracting too frequently not only habits of dissipation and *extravagance*, but principles unfriendly to Republican Governm't and to the true and genuine liberties of mankind, which thereafter are rarely overcome.—For these reasons it has been my ardent wish to see a plan devised on a liberal scale which would have a tendency to spread systematic ideas through all parts of this rising Empire, thereby to do away local attachments and state prejudices as far as the nature of things would, or indeed ought to admit, from our national councils—Looking anxiously forward to the accomplishment of so desirable an object as this is, (in my estimation) my mind has not been able to contemplate any plan more likely to effect the measure than the establishment of a University in a central part of the United States to which the youth of fortune and talents from all parts thereof might be sent for the completion of their education in all the branches of polite literature in arts and sciences—in acquiring knowledge in the principles of Politics and good Government and (as a matter of infinite importance in my judgment) by associating with each other and forming friendships in Juvenile years, be enabled to free themselves in a proper degree from those local prejudices and habitual jealousies which have just been mentioned and which when carried to excess are never failing sources of disquietude to the Public mind and pregnant of mischievous consequences to this country:—under these impressions so fully dilated,—

ITEM—I give and bequeath in perpetuity the fifty shares which I hold in the Potomac Company (under the aforesaid Acts of the Legislature of Virginia) towards the endowment of a University to be established within the limits of the District of Columbia, under the auspices of the General Government, if that Government should incline to extend a fostering hand towards it,—and until such seminary is established, and the funds arising on these shares shall be required for its support, my further will and desire is that the profit accruing therefrom shall whenever the dividends are made be laid out in purchasing stock in the Bank of Columbia or some other Bank at the discretion of my Executors, or by the Treasurer of the United States for the time being under the direction of Congress, provided that Honorable body should *patronize* the measure. And the dividends proceeding from the purchase of such Stock is to be vested in more Stock and so on until a sum adequate to the accomplishment of the object is obtained, of which I have not the smallest doubt before many years pass away, even if no aid or *encouraged* is given by Legislative authority or from any other source.

Washington's legacy never became effective. Congress, because of varying opinions as to the functions of the national government in matters of education, never acted; and in time

the Potomac canal shares themselves became valueless. The work of higher education in the National Capital was undertaken by private enterprise, notably by the Georgetown University, founded by the Jesuits over a century ago, and by the institution now known as The George Washington University, but founded in 1821 as The Columbian College in the District of Columbia, and in 1873 enlarged in scope and given the name Columbian University, and in 1904 reorganized and expanded under the name The George Washington University. In addition to these two long established institutions, each with virtually a century of continuous useful activity, there have been founded in the District of Columbia the great and splendidly endowed Catholic University of America, sustained by the wealth and power of that denomination, and liberally attended by its youth, and also The American University, established some years ago by the Methodists, but limiting its activities solely to post-graduate work, and having prior to the outbreak of the war an attendance of less than fifty students.

Of all these four institutions, The George Washington University is the only one that is strictly non-sectarian. Nevertheless it stands for the highest moral and ethical principles and affords opportunity for spiritual as well as mental development.

This University receives today no financial support from the government. It never has had any aid from it except a gift of some land worth about \$25,000, made to it at about the time of its establishment. Its alumni have been more conspicuous because of their fidelity to the government in public service than because of the amassing of wealth in business pursuits, and consequently have not been able, despite their loyalty, to endow it liberally. Yet, in the face of many obstacles and notwithstanding many discouragements and disappointments, it has stuck to its work and has steadily endeavored to increase its means for service, until today it offers the cultural education of the college, the scientific education of the technical school, and education in all the learned professions except theology.

It is not only true to the aims of its founders as expressed at its first commencement in 1824, when President James Monroe, Secretary of State John Quincy Adams, and Lafayette (then visiting America) were its guests, but it has also kept in mind those special opportunities of usefulness that a university in the National Capital possesses, as repeatedly set forth by George Washington. Nor need we hesitate to say that all that

he hoped for from the establishment of such a university can be gained by the strengthening of the existing George Washington University, which strives for his ideals and which has chosen his name as its name not only to indicate its determination to carry to fulfillment his cherished wish, but also to keep ever before its students as its model of manliness and its type of Americanism the great Father of His Country, whom Senator Lodge in his biography of Washington in The American Statesmen Series, has justly declared to have been "the first thorough American in the broad national sense."

The institution is cognizant of its peculiar duties to the community in which it is located. As President-elect, to take office on September 1, 1918, I feel it proper for me to say that as charity begins at home, so I conceive that the first duty of The George Washington University is and always will be to care for the educational needs of the vast number of students temporarily living in the National Capital, but legally residents in different sections of the country and in many cases returning to those sections after graduation. Every effort will be made to increase the number of these students and to provide them with every facility. *This work will be the first in point of time, first in obligatory force, and first in importance, while I am President.* I consider the local field a large one and I would regard the accomplishment of the work that I have mentioned as a very high and honorable achievement.

But, although warned by past experience of The University against rash experiments and over-confident hopes and vaulting ambitions, I nevertheless look forward to A GREATER GEORGE WASHINGTON UNIVERSITY. It is admitted by everyone that the National Capital offers exceptional advantages to students whether undergraduate or post-graduate. Here in the Congressional Library is the greatest collection of books in America. Here are many museums and an art gallery, with rich collections. All of these storehouses of knowledge are accessible to our students by Congressional enactment. Here may be heard the public discussion of the most profound matters of national and international policy. Here are argued the great questions of constitutional law. Here are incentives such as exist nowhere else—the symbols and agencies of a great nation's power, memorials of the greatest in the world's history, Washington, Lincoln, and the heroic dead who are commemorated in statue or who keep silent vigil on Arlington's heights. Here is a society, not exclusive, but which in its official circles, at least, by reason of their

special conventionalities, is hospitable almost to the point of throwing the door open to the public. It is a society composed of representatives of the best from all sections of our own land, as well as of representatives of the culture of foreign nations.

All these and the many other advantages that Washington offers as a seat of a great university have been recognized by the Catholic Church in the foundation of those two excellently equipped institutions to which I have referred, the Georgetown University and the Catholic University of America, as well as by the Methodist Church in the establishment of the American University.

The existence of these institutions is proof of Washington's special advantages as a seat for a great university to meet the educational requirements of the thousands of young men and women who desire to come here for the sole purpose of study, as well as of the thousands already here in government service who seek similar opportunities so far as time permits. The former class indeed can hardly be numbered; tens of thousands would be more accurate figures were the facilities ample.

The three universities in Washington that I have just mentioned, being under denominational control or having limited their field of work to post-graduate research, there is ample room, in fact, actual demand, for a great University national in the scope of its activities and in its *clientèle* and in its support, but free from governmental control. Such control of a National University would, in my opinion, be a National Peril. What would be taught in such an institution would depend upon those in control of the government at any given time. Who can tell how sudden or how subversive political changes may be, or how erratic and inconstant national policy may become? I am convinced that the security of the cause of education lies in its independence, and in the strengthening of existing institutions, already numerous and representative of all schools of thought, but each, independently along its own lines, seeking the truth which is more apt to be discovered in this way than if all these institutions were to be subordinated, either in legal effect or in popular estimation, to a "Super School" under centralized political control.

If it be said that the excellent results of the common school system and of the creation of the State Universities are a refutation of my argument, it may be said in retort that the educational systems of each of the forty-eight states is independent of all the others. If in such a system, Oklahoma

errs, Michigan may correct. If Massachusetts clings to old conceptions, Wisconsin can advance new ideas. The truth may be an average of the views of all, or one may be entirely right and the other entirely wrong, but I am certain that the truth will be sought with less prejudice and spoken with less fear in such a system than in a centralized one.

The George Washington University with its (almost) hundred years of honorable record and its present healthy activity, with its roll of 250 professors and instructors of all grades, and 2,200 students, with its College proper (The Columbian College), its Graduate School, its Teachers' College, its Hospital, and its Schools of Engineering, Law, Medicine, Dentistry, and Nursing, and its affiliated Colleges of Veterinary Medicine and of Pharmacy, is, I believe, the nucleus of the still greater University which the needs of the country require.

Large as is our student roll, it would be much larger in many departments if we would lower our standards, which we will not do. Large as that roll is, it could be much larger in several departments if we had greater facilities; and these we must have. Our Law School could be doubled if we lowered our standards. Not to do this is a matter of which to be proud. Our Arts and Science Department could have many hundreds more of perfectly qualified students if we had better facilities—endowments for professorial chairs, more buildings and equipment. Not to get these would be a crime. We have one of the most thorough corps of law instructors in the country; but other institutions are constantly alluring its members with higher salaries.

We may rightly appeal to the friends of education everywhere to help us, for our business is to help others to help themselves. We do our work well and we are in a position where, with a little help, we could do far more than other institutions with a like amount of money, for with the city's many parks, virtual campus for us if our buildings are located near them, and with the Congressional Library and many Government Museums—collections accessible to our students for purposes of research work—we have free use of things of enormous value which most other universities would have to buy.

President Harper, of Chicago University, is reported to have said that \$1,000,000 would do more for the George Washington University (located as it is in the National Capital) than \$5,000,000 given to an institution located elsewhere. The statement is correct.

The financial methods that have prevailed throughout Admiral Stockton's administration fill us with a very high and a very just pride and inspire the public with confidence and respect. We pay as we go, although if we had more money we could go farther. We live within our means, although if our means were larger our activities would be immensely increased. We make it a point of honor to end the year without the deficit that so many colleges seem to think no stigma. We carry over a decent cash balance each year. Our accounts are audited by public accountants, and our Treasurer's report is published to the world, and whoever wants a copy may have one. Of course, the ledger does not show the sacrifices that have to be made by faithful and learned professors because of the smallness of their salaries. Neither does the world hear of that in complaints and importunings. Nor does the statement of assets in setting forth what we have, proclaim loudly what we need, although he who reads it will find not so much an answer as a summons.

Our needs, it is true, are many, but only because our opportunities are almost infinite. Many plans of development we must postpone because of the war; but others are urgent and should be pushed immediately and energetically as war measures. The highest government officials, from the President and his Secretaries of War and of the Navy to the military officers in the field, have repeatedly declared that those students who now are incapable of bearing arms perform a patriotic duty by completing their courses of study and fitting themselves for subsequent better service. University training, especially in scientific matters, is essential to winning the war and to success in the competition that will follow the war. The universities must give their sons who can go, but the universities, as universities, must still "carry on." It is they who must teach and train men how to go "over the top." Their efficiency must be increased if we would have Preparedness.

Eliminating everything, then, that is not essential; postponing everything that is not urgent; aiming to do only that which will help win the war, what are the things that ought now, today, to be undertaken by The George Washington University? What are the things that should be done for, by, and through it by its alumni and friends and by all patriotic citizens who see the special service that such a university in the National Capital can render to the Nation? I will mention them, prefacing my statement with the declaration that every

cent contributed in war times should be invested in Liberty Bonds if contributed for endowment. If contributed for buildings it should be so invested until building is begun.

ENDOWMENTS FOR PROFESSORSHIPS.

Most urgent of all our needs in these days of war-time stress for colleges is a Permanent Endowment for Professorships, money that will permit the payment of larger salaries to the teaching staff—men of the highest ability and the greatest devotion to the cause of learning, who are serving the University, and through it, the Nation, most unselfishly and at great sacrifice. Increase of their salaries would be a matter of justice,—fair pay for fine work. It would be an act of gratitude,—the recognition of years of patient scholarship. It would be a move in the direction of national preparedness, for these professors are today teaching, and for years have been teaching, those arts and sciences, mastery of which is absolutely indispensable to the success of this Nation in the Great War that is now ravaging the world and to its success in the keen competition that will follow it.

A SCIENCE HALL.

One of our urgent needs is a Science Hall. The demands made upon us by the government for instruction in the applied sciences are so great and so imperative and so urgent that its faculty is overburdened and its facilities are overtaxed. In chemistry, for example, the number of students is so large that by actual count and actual measurement we need just eight times the laboratory space that we have, and unless we can have a new Science Building and more equipment we may next year be obliged to limit the courses in chemistry to medical and dental students and those in the Arts and Science Department who show special aptitude in this science. Such a limitation, here or elsewhere, would be a real loss to the Nation in its war preparations. *The Science Building that I mention is almost as essential to national defense as any cantonment or shipyard or government building that is now being constructed.*

A LIBRARY BUILDING AND AN AUDITORIUM.

Buildings of the kind referred to in this caption are essential to our University work. The Library should be fire-proof, of course; and the Auditorium should have a capacity of from

1,000 to 1,500. The two might be embraced in one building; or the Auditorium might be so constructed as to constitute a Students' Club or Center of University activity.

A DEPARTMENT OR SCHOOL OF POLITICAL SCIENCE.

It is not the desire of anyone connected with the University to expand beyond the point of efficiency. We do not intend to spread out our courses broad but thin. We realize, however, the duties that fall upon us because of the demands of the times and the advantages of our environment. These call for development in certain lines, the permanent endowment of existing chairs and the addition of others in kindred subjects, so that we will have more complete and comprehensive courses in certain groups of studies, which may later be coördinated into Departments or Schools according to the circumstances that may arise. In this sense one of the first efforts should be for coördination and extension of our courses and the practical reestablishment of *The School of Political Science*, which, as the old School of Comparative Jurisprudence and Diplomacy, once shed such lustre on The George Washington University in those days when Justice Harlan and Justice Brewer and ex-Secretary of State John W. Foster and William Wirt Howe, then President of the American Bar Association, and David Jayne Hill, were, all of them at the same time, in its faculty.

No one in a republic will question the importance of such subjects. In a speech to both houses of Congress, December 7, 1796, President Washington said, with regard to a University in Washington:

"Amongst the motives to such an institution, the assimilation of the principles, opinions, and manners of our countrymen, by the common education of a portion of our youth from every quarter, well deserves attention. The more homogeneous our citizens can be made in these particulars the greater will be our prospect of permanent union; and a *primary object of such a national institution should be the education of our youth in the Science of Government.*

In a Republic what species of knowledge can be equally important?"

That Washington is preëminently the place for the successful teaching of Historical, Political and Economic Sciences is the uniform testimony of Diplomats, Secretaries of State and international lawyers. Ambassador Bryce has said:

"No place could be so well fitted to give actuality to the study of those subjects, and to enable students to test theories

and abstract doctrines by comparison with concrete facts, as is the spot where Congress sits—where the Supreme Court sits—where the great administrative departments are at work and where a great deal of extra-official political activity goes on."

The late ex-Secretary of State John W. Foster, one of America's greatest authorities in the practice of diplomacy, a number of years ago wrote:

"From almost every point of view the full equipment of a great university at the capital of the nation, especially for post-graduate studies, is highly desirable. It will prove particularly appropriate and useful in its department of Politics and Diplomacy. For such a school no other locality in the country can offer such facilities and incentives. The great libraries located here, both general and special, the different departments of government serving as object lessons, the sessions of Congress, and the opportunities for contact with the diplomatic corps, make Washington the ideal place for a school of Politics and Diplomacy.

"I have long felt that some one of our men of wealth could not do a more patriotic or useful act than to endow such a school, in connection with The George Washington University and thus worthily perpetuate his name as no other provision of his fortune could."

When plans were being formed a number of years ago for such amplification of the work of The George Washington University, one of those who gave the wisest counsel and the most hearty cheer was M. Jusserand, then, as now, French Ambassador to the United States. Conditions have changed much since that time, yet in many respects they only invite increased attention to some of the things he then said:

"Like a human being, a university, in order to succeed, must answer a need and adapt itself to circumstances. * * * Universities must, to be sure, produce all sorts of men, but it is quite natural that each university should pay more attention to one special kind of knowledge. A university in Washington cannot hesitate and has no choice:—*it should become famous and be of use to the country as a nursery of magistrates, statesmen and diplomats.*

"That the rearing of men of this sort is possible we know from experience. When France emerged, in 1871, from one of the most terrible and bloody crises she had known in the course of fourteen centuries, every one of us had only one thought: What can be done for our country? How can we help to raise her again, to build a stronger yet more liberal France, one that will not, if we can help it, know again such sad days? And everywhere, in every direction, throughout the country, people set to work to the best of their ability.

"One of the most valuable results of that movement was due to a private citizen, not widely known then, a man who had

no funds at his disposal, who did not possess the fiery speech and burning eloquence which moves multitudes; a quiet man of simple habits and gentle voice, but with a tenacious will and a heart of gold. That heart of his taught him that *the best way for him to help his country was to found a school where her sons might acquire a better knowledge of the nations of the world* (France included), *of diplomacy, history, social questions, and political sciences.* Our ignorance of such sciences and of foreign countries had been one of our weak points; and he determined to try and remedy this.

"The beginnings were very modest; I well remember the poor little school, established in a narrow street which has since disappeared; it was and still is quite a private undertaking; the state gives no help; but the idea was so fecund and the creation answered such a need that the success was most surprising. Shortly after the opening of the school, the best citizens, the greatest thinkers, the most useful sons of France, were to be met there, with others, either as teachers or as pupils, and sometimes in both capacities. Mixed with a troop of insignificant youngsters (of whom I was one) such men as Taine or Léon Say were seen, never missing a lecture, and taking notes like the rest of us.

"Nowadays, the '*Ecole des Sciences Politiques*' is known the world over, and millions of Frenchmen bless the name of the good citizen who, out of nothing, in the hour of need, created it—Emile Boutmy.

"Twenty-five years after the foundation a medal was struck to commemorate the event, and the inscription on it is the best recompense its creator could aspire to: '*Scholæ in luctu publico, spe indomita, condita, virorum civiumque nutriti, patria memor.*'"*

* Translation—"The country is gratefully mindful of a school that was founded, with unconquerable hope, at a time of national calamity, as a nursery of men and citizens."

Ex-Secretary of State Elihu Root, in a letter to those who were engaged in the development of our old School of Diplomacy and Jurisprudence, gave forceful expression to his opinion of the importance of the work and the advantages of a Washington location:

"The importance of having a large number of men thoroughly educated in these respects (politics, economics, international law, and diplomacy) grows continually, with the increasing complications of modern life and government and international relations. Questions of internal government are becoming less simple and more difficult of solution, and there is more need that they should be thoroughly studied than ever before. Questions of peace or war are determined now by great masses of people forming popular governments, according to their opinions and feeling about supposed injuries and insults. It is of the highest importance that the people who really determine such questions shall have a correct view of what their inter-

national rights and duties are. *The surest way to secure permanent peace, founded upon just conduct, is to have such an understanding, and the surest way to secure that is through the kind of work which your university is proposing to do. I know of no place in the country which has such great advantages for the prosecution of this work as the National Capital.*"

David Jayne Hill, ex-Ambassador to Germany, and America's recognized authority upon Diplomatic History, has also spoken most unqualifiedly as to the unequaled advantages of Washington as a seat for a School of Political Science which will hold a position of admitted primacy among all American institutions where these subjects are taught.

Not only is Washington the most suitable place in the world for a great School of Political Science, but now, this very instant, is the time to start it and to establish it firmly. *It ought to be started as a war measure.* Instruction in it would be more effective upon public opinion and legislation than much of the propaganda that is being made today at far greater expense.

Never was it more important to teach the true principles of International Law, International Polity, and World Organization than today, when all the world is molten and about to be cast into new forms. The war will be fought to a finish, but unless the things that have just been mentioned be not only taught but learned, every war will be but a skirmish for a subsequent greater contest. This also is the moment to endow chairs of constitutional law—that is, if we are to perpetuate our Constitution, which just now is being attacked frontally and on the flank, openly and insidiously, which is being buffeted and reviled by its enemies, while many of its pseudo friends seem disposed to give it the dextrous *coup de grace*. Now also is the time to teach sound principles of political economy. Moreover, today, as never before, men need to study the State, its nature and its aim and end. Sociology, too, requires our honest and earnest study, for we are in a grand mix-up, not only of races and nations, but also of classes and masses, and even of sexes.

The present is also the time for the special and profound study of history. Only as we trace current events back to their causes can we make a reasonable prediction as to future developments. It is necessary that we know history more intimately and more generally. We must have a broader outlook and also a sharper lookout in this country or America will blindly wander into the morass. The average American, even college trained, knows little about European history, and next

to nothing about the history of the Eastern half of it,—the vast empire and the still mighty race of the Slavs, despite their present disorganization. He knows practically nothing about the history of the democratic movement there. Today we are groping around in ignorance as to what to do with, in, or for Russia. Had we known the history of its people and had more sympathy, we perhaps might not have lost an ally. Had we had more insight we would have had more foresight. How little, too, Americans know of the history of the Far East, of Japan and of China. It is time to study it, for ignorance is not bliss but bane.

ADDITIONAL COURSES IN FINANCE AND COMMERCE.

Those who have learned business methods in the stern school of experience, but who realize that trade is now world-wide, that conditions are changed, that methods are new, that commerce and finance are today sciences, that education in these subjects is vitally necessary, will realize that additional courses in Finance and Commerce are needed as a part of The George Washington University. The National Capital is the proper seat for such a school, because, in the future, business is to be, if not a governmental function, a matter of government regulation. World competition is apparently to be carried on by bigger corporations or syndicates. Each industry is likely to become virtually a unit in this respect. If so, the government in the interest of the people will probably control it. Foreign languages, foreign customs, foreign needs and resources, foreign tariffs, as well as the complicated methods of international exchange, have become subjects necessitating serious scientific study. Business, domestic as well as foreign, is growing so great that system in production, plan in marketing, method in accounting, must be studied.

Washington is the place to teach these things. First, because the growing need of the government for thousands of persons thus qualified is today virtually forcing the heads of departments to urge young men to take such courses. Secondly, because Washington has more young men and women of college age qualified to take these courses than any other city of its size in the country, for we have not only our natural proportion based upon population, but nearly as many more, say, 40,000 more, who have come here from other places as clerks or employees. All in all, there are at least 80,000 men and women in the District of Columbia, of suitable age to take some course in a university; and such a large number of them, by

training and temperament, are fitted for commercial life that I think it probable that some one will be anxious to endow chairs in Commerce and Finance at George Washington University. The endowment, of course, should be in Liberty Bonds, and \$100,000 will endow one chair.

ENDOWMENT OF SCHOLARSHIPS.

Self-made men who have struggled to success will appreciate what an exceptionally earnest, ambitious, hard-working, self-supporting, self-respecting body of young men and women we have in The George Washington University, and how much the establishment of scholarships could give them greater advantages or throw open the door of opportunity to others of the same kind. We think we may justly claim that no college or university has a student body more worthy of support or encouragement. Out of a total enrollment this year of 2,200, 75 per cent, or practically 1,650, are self-supporting. They are the kind of boys and girls who go to college, not those who are sent by indulgent parents. They pay their own way, and, therefore, demand their money's worth. They insist on thorough teaching, stiff requirements, high standards, strict examinations. They have little spending money, and therefore are free from many of the habits that lead to the extravagance that characterizes so many American colleges today. Our students have as little time as money to waste. It is the spare hours that they turn into the study hours. They are not seeking for "cuts" from recitations nor are they desiring excuses for absences from college. If they watch the clock, it is to see that the Professor arrives on time and that he does not stop before the hour is up. I am not using hyperbole. I am stating plain, bald truths. Seven or eight years ago, when the finances of the University were in such shape that it was thought it might have to discontinue many activities, when the doors of certain buildings were about to be shut, the students literally blocked them with their bodies and said "The University must and shall remain open. Where there are thousands of students, there must be a University for them to attend."

I realize that in being fond of study our students are somewhat peculiar and are setting prevailing college notions at naught, but my explanation (I cannot say "my excuse") is that Ours is a College that is Different. While we have few rich alumni to whom to appeal, I have a feeling that some time and some where, some time very soon, there will be found men with the old-fashioned idea that in college study should come

first and sport second, who will take pleasure in establishing scholarships (each, say, \$5,000 in Liberty Bonds) that will give many deserving students the opportunities to take courses in George Washington University.

MEMORIAL SCHOLARSHIPS FOR SOLDIERS.

Perhaps these donors will make these scholarships memorials of their own loved ones, who offer their lives upon the altar of their country, or of other loved ones who are dead. Perhaps some donors in establishing these scholarships will want to provide that preference in awarding them shall be given to the thousands of young men who will come back from the battle fields of France, wounded or stricken in health, more or less physically incapacitated, and therefore under special necessity of training their intellectual faculties. Is there a nobler or more patriotic thing to do? Is there anything that could more fittingly reward those who will fight our battles for us? It may be that generous donors will wish to give a secondary preference to qualified students from the hundreds of thousands who will come back unwounded and unharmed. Their courses of study in preparation for life's duties have been interrupted, but must be resumed despite many obstacles. Would it not be a joyous work to help remove these obstacles? Finally, preference in awarding these scholarships might be given to the sons and daughters of army and navy officers and of the others who have heard the call of their country and given up their gainful occupations, but who, nevertheless, have children to educate.

I believe loyal, grateful Americans will wish to establish such scholarships and to do it immediately. In fact, it is possible that someone will wish to establish here in Washington, as a part of The George Washington University, a great Memorial School, or College, with buildings, endowed chairs, and free tuition, a college with the highest ideals inspired by these noble memorials, with specially high standards of education and with the most stimulating associations. Such a Memorial School or College, whether endowed with one princely sum or with hundreds of scholarships at \$5,000 in Liberty Bonds, would be one of the greatest benefactions in the world; and could be the most magnificent and the most enduring and the most satisfying monument ever erected by man. The person who builds it or who unites with others in building it will never die in the minds and the hearts of his countrymen. He will

live in influence and in helpfulness in the lives of young men and women through all the centuries to come.

HOSPITAL AND MEDICAL OPPORTUNITIES.

Conservation of "Man-Power" is the momentous question of the hour. It is the most important work and the noblest. Opportunities for patriotic humanitarian service in repairing the ravages of the war as well as in training physicians, surgeons and dentists for field service abound in connection with our Medical Department and our hospital. A unique war charity would be a special department in Reconstructive Surgery for patching up and piecing together the poor old wrecked and shattered bodies of the men engaged in this war and for the functional re-education of the disabled and the crippled. Science has been turning out many devilish destructive instruments lately. But all scientists are not doing this sort of thing. Some of them are performing marvels in "reconstructive" surgery. There is not yet any great well-equipped institution for functional re-education nearer than New York, where one has just been opened. Washington is the proper place for one, because as fast as these men are pieced together sufficiently to do some light work, the government here could give thousands of them lucrative positions now filled by able-bodied men. Another noble philanthropy would be to endow free rooms in our Hospital for honorably discharged soldiers and sailors and their families. Should anyone want to help The George Washington University extend its hospital work along these lines, their wishes and their views as to the scope of work would be largely controlling and their personal participation upon the Board of Trustees or Managers would be expected. They would find opportunities for service as well as benevolence. Is there any work of mercy equal to this?

We realize that there are several hundred colleges and universities in the United States, each with its own field. We do not seek to trespass upon them. We desire only to meet our own obligations and to perform our own duties. Those I conceive to be: First, to furnish a complete higher education to the young people of the District of Columbia; second, to furnish the means of making available to all the people of the country the great educational advantages which admittedly exist there, which admittedly belong to all the people and not merely to the people of the District of Columbia, but which admittedly can become available to all the people only by the establishment or development of a great university.

We are one of many, but in our location we differ from all others. We are at the National Capital. The great incidental advantages that we possess are due to the National Government. We owe a duty to the whole country, and we feel that we have a just claim upon the people of all sections.

Every American citizen, however great his local interests, probably owes more to his country than to his town. He cannot better discharge this obligation than by doing something for the cause of education in his nation's capital. However much he may owe his wealth to his own efforts or to local assistance, he owes it more to his nation, which keeps united under one government a great continental domain and whose laws give him the rights of citizenship in every part of it, with freedom of commerce in all territory within its boundaries. It is the nation's tariffs that protect his industry at home, the nation's power that secures him his markets abroad, the nation's army that guards him from the enemy; and the nation's capital belongs to him as much as to anyone else. It is just as much his as is the town where he has his farm or factory or office or store.

What I have so far suggested relates to matters, all or most of which, I think, may properly be undertaken now as means of aiding in the war or in the reconstruction that will come immediately after it. But we are under obligation to look into the future and calculate the permanency of the University's usefulness, for unless it is to be of enduring value, it would be wrong to suggest even small investment in it. Nowhere, I am sure, are fundamental conditions more favorable for infinite duration and ever-increasing influence and nowhere, after the war ends, will the obligation to acquire the necessary facilities for extension and expansion be greater.

THE UNEQUALLED ADVANTAGES OF OUR LOCATION.

Writing from Philadelphia to the Commissioners of the Federal District in 1795, with respect to the proposed University, Washington said:

"The Federal City, from its centrality and the advantages which in other respects it must have over any other place in the United States, ought to be preferred as a proper site for such a University."

Such also has been the opinion of practically everyone since Washington's time who has given thought to the subject. About a decade ago, when a movement of expansion was undertaken by the University, the leaders among the nation's

statesmen gave public expression to their views. What they then said, in large measure, remains true today.

Former Vice-President Fairbanks said:

"At such a University in the National Capital there will assemble young men of ability from all portions of the country to enjoy *facilities for education which will be unequaled anywhere*. They will not alone be able to enjoy the advantages afforded by the great libraries and be permitted to study at close hand the mechanism of the government, but they will be brought into intimate touch and association with young men from all portions of the Republic, who will become factors in all of the professional, business, political, literary, and scientific walks of life."

Mr. Justice Day, of the United States Supreme Court, formerly Secretary of State, said:

"I have long shared the feeling that there should be at the National Capital one of the strongest and best institutions of Higher Education. No city in the country can rival Washington in special advantages for such a university.

"The opportunities found here for the student in any branch of learning are unsurpassed in the assistance afforded by museums and libraries of the most comprehensive character. And, above all, I would place the inestimable privilege which a residence here gives to a student in the opportunity to observe the workings of his government in the making and administration of the laws. The student of law will here find an opportunity to hear the best legal talent of the country in its court of final resort, and may hear the leading statesmen of the nation in debate in the Senate and House.

"He will carry away not only the learning of the books, but the knowledge which comes from a near view of his government in actual operation, information which should promote his patriotic interest in his country's welfare, making of him a better citizen as well as a scholar."

Ex-Secretary Root said:

"There are many respects in which Washington furnishes a field for Higher Education absolutely unequaled by any other place in the United States.

"This is especially true of *Political Science, Jurisprudence, Diplomacy, and International Law*. The operations of a great government here, with which a student can readily keep familiar, afford opportunities for a real understanding in these branches almost equal to those that a hospital furnishes to a medical student, or that travel brings to the aid of the study of geography."

George B. Cortelyou, former Secretary of the Treasury, and still earlier Postmaster General, and before that Secretary of Commerce and Labor, testified to his personal interest as an alumnus of George Washington University, in the movement

to increase its equipment so as to carry out Washington's declared purpose. Within the past few months (1918) he has repeated that assurance of loyal interest.

Ex-President Taft, then Secretary of War, wrote:

"Washington is better adapted for the home of a university than any other city in the country. A really great university here would have its being in the national and cosmopolitan atmosphere of the capital of the country, and at the same time would constitute a valuable leaven and influence for culture and learning in the political and social life of this city. It would be a compliance with the purpose of George Washington as outlined in his will and would be a place where *Northern, Southern, Eastern and Western influences would unite to form a national American spirit.*"

Ex-Secretary of Commerce and Labor Oscar S. Straus, after enumerating the many scientific bureaus of the various executive departments which could be availed of, to the greatest advantage, by the students of a university located in Washington, declared:

*"No other city in the world has ready at hand such educational facilities in a concrete working shape as are found in this capital. * * * With its foundations upon broad lines, if given proper facilities, a university located here would offer advantages of the very highest order, which no other university in the land, no matter how richly endowed, can supply."*

The late Mr. Justice Brewer, who for a time was a professor in the University, and who always cherished the most lively hope of its fulfillment of the great mission which he conceived for it, referred in the course of a letter setting forth its numerous advantages to the immense influence which it could have in directing national and international activities. After declaring that the presence and influence of the Supreme Court, Congress, the executive departments, and the foreign diplomatic corps are considerations which make a university in the capital one of great attraction and value to students, he said:

"In a reflex way, the instructors, who should be the most learned and competent men of the day, pursuing their several lines of investigation and study, will be constantly furnishing to those engaged in these national and international activities the best thought of the world. This reflex action is as important from a national standpoint as the direct benefit to students from a personal standpoint."

No less important in this hour of increasingly intimate and important foreign relations with all their momentous problems, is the influence that might be exerted upon them by a university in Washington so well equipped as to draw to it students from all parts of the world. Hon. John Barrett, one of the most

patriotic as well as most cosmopolitan of our citizens, now Director General of the Pan American Union, formerly American Minister to several countries in Asia and in South America, and a traveler in all quarters of the globe, long ago spoke forcefully and intelligently upon this point, saying:

"We have little idea how well known this city (Washington) is among foreign peoples. In many parts of the world, where the name of New York, Boston, and Chicago are never spoken, there is knowledge of the capital city, named after the first man of this country.

"The name of George Washington is one with which to conjure in all portions of the world. It carries a magical significance, not only in Japan and India, but in Africa and South America. A city, therefore, and an institution that are named after the Father of his Country are expected to be the best that the country in which they are located can produce.

"If once I have heard a foreign king, prince, or potentate express the opinion that education and civilization in the United States should reach its highest point of consummation in the city of Washington, I have heard it said a score of times. Were you to travel around the world and ask the leading men of foreign nations where they would expect to find the greatest University of North America, they would say that it would surely be in this city.

"All over South America, which is famed for its devotion to education, the great universities are located in the national capital, and, during my stay as United States Minister in that part of the world, I was asked repeatedly by representative statesmen, educators and learned men why it was that Washington, the capital city of the United States, with all its unequalled advantages, did not have a great university, that would attract students from all over the world."

"Again, in China, more than once I heard men who stood for the highest thought in Asia express profound astonishment that our national capital did not have in its limits a great institution of learning, which would invite graduate students from over the earth. Both in what these Chinese gentlemen said and in the remarks of the statesmen of South America and India, I gathered the impression that hundreds of young foreigners would attend such a university if it were located in the capital city of a country which to them typified modern and successful progress in education as well as in material accomplishment."

Mr. Barrett then declared that he believed that if there were a great well-equipped university in Washington, known far and wide,

"it would have among its throngs of students no small proportion from South America, Europe, Asia and Australia."

He then put a question, so pregnant with importance today as well as then, that we may well repeat it and ponder over it:

"What better influence could there be to strengthen our prestige abroad than to have in attendance (at such a university in the capital of the United States) representative young men from all the leading countries of the world, and especially from those who are looking to us to set them an example?"

Ambassador Bryce, preëminent as an educator as well as a diplomat, once wrote:

"Washington seems to possess several quite special advantages fitting it to be the seat of a great university.

"Unlike your other great cities, it does not feel the strain and pressure of commerce and manufacturing industries. It contains an unusually large number of residents—temporary during the sittings of Congress, or permanent—who are qualified to act as advisers in university matters, men with a diversified experience of public affairs and a wide knowledge of the whole country. As the seat of government, it draws to itself, more perhaps than any other city, persons of all types, of all stocks, of all interests.

"There is something truly metropolitan about Washington, and a great metropolis ought to find one of its chief ornaments and glories in an institution dedicated to the highest forms of education and research."

American educators, no less than the distinguished British educator whom I have just quoted, have recognized the need of a great university at Washington. Andrew D. White, ex-Ambassador to Germany, and ex-President of Cornell University, repeatedly declared his belief in the necessity of the founding of one more great institution of learning in the United States, with Washington as its seat, so as to make generally available the wealth of books, laboratories, collections and illustrative material to be found there, saying on one occasion:

"A university at Washington would have certain advantages and could do certain most valuable work for the country which no other single institution could do."

Another educator, no less eminent, has spoken of the
"unique opportunities offered by the government bureaus for the special training of post-graduate students in all branches of science."

He also declared that a foundation, at that time, was needed for the following objects:

"(a) To facilitate the use of the scientific and other resources of the government for research;

"(b) To coöperate with universities, colleges, and individuals in securing to properly qualified persons opportunities for advanced study and research";

and added that such a foundation

"will result in the advancement of Higher Education throughout our country, and provide the government and all educa-

tional institutions with a body of well-trained men that will be of the greatest service in the upbuilding and strengthening of our civil and educational institutions."

The President of one of the oldest and most successful New England universities said:

"I have always believed that Washington has advantages above all other cities in this country for the development of graduate study. While steadily opposing the idea of a university supported and controlled by the national government, I have as steadily maintained that some day we should see in Washington a collection of graduate schools which would do honor to the nation and furnish immense stimulus to research in every field of human knowledge. * * * A university in Washington can do for the Southern States what no Northern university can achieve. A university in Washington would tend to unify all the Higher Education of the country."

The head of a Western university expressed his interest in the establishment of

"a graduate university at Washington—one that may make effective use of the unequalled collections of the government at the capital; it should be an institution coördinating and supplementing the work of the great State universities and of the older private foundations."

Still another from the West declared:

"The chief good to be obtained from a national university is the opening of the various collections in Washington to advanced students under such conditions and wise guidance as will enable graduate students from all the universities and colleges to use the scientific and other resources of the government for research."

The President of a Pennsylvania university wrote:

"The exhaustless treasures of knowledge and investigation at Washington should be utilized. If anywhere in the land a great graduate school should find its birth, it should be at Washington."

NO WASTEFUL DUPLICATION OF EFFORT.

In a recent address (January 11, 1918) to Cornell men, President Schurman, of that University, predicted that after the war there will be fewer colleges and universities; that institutions will not be able to continue where they do not fill a need better than other existing institutions can fill it; that it will be considered a crime—a wasteful expenditure of public money—to have more than one when only one is needed. This is indeed an acid test. In many cases it is the destructive test. But we are confident that if the rule of the "survival of the most needed" be invoked, The George Washington University can look forward to a prolonged career, and after the war to a greatly enlarged field of usefulness. While most educators

feel that we have in many parts of our country more colleges than can be well sustained, yet, I believe, that the majority of them, despite the establishment in Washington of the Carnegie Institution, will still endorse the words used many years ago by the head of one of the great educational foundations of the country:

"Washington presents a unique opportunity and an unusual field for university effort.

"There could be no more wholesome influence in our National Capital than would be furnished by the intellectual and moral atmosphere of a strong university. Furthermore, the facilities of the government itself supplement in the most effective way the work which a university desires to do. An ever-growing constituency is furnished by the men drawn to Washington for various purposes, so that the building up of a strong university in Washington is not merely an addition of a new institution to those already existing, but it is the establishment of an intellectual center in a unique strategic position.

"Such an institution, not controlled by, but coöperating with the government, ought to fill a real place in American Education."

At the time of the movement to expand the University a number of years ago, that unusually well-informed weekly, *"The Nation,"* said:

"Its opportunities will lie in pushing the development of facilities which cannot be duplicated elsewhere. In certain branches of study, it may easily outrank all other American universities."

and it referred to the unequalled advantages it might have in teaching, not only Diplomacy, International Law and American History, but also Meteorology and the application of the Physical Sciences to Agriculture.

Today we are in the midst of a great war undertaken to make the world safe for democracy; but we are striving, too, to discharge the reciprocal obligation to make democracy safe for the world. The rabbi of a prominent Hebrew congregation truly said:

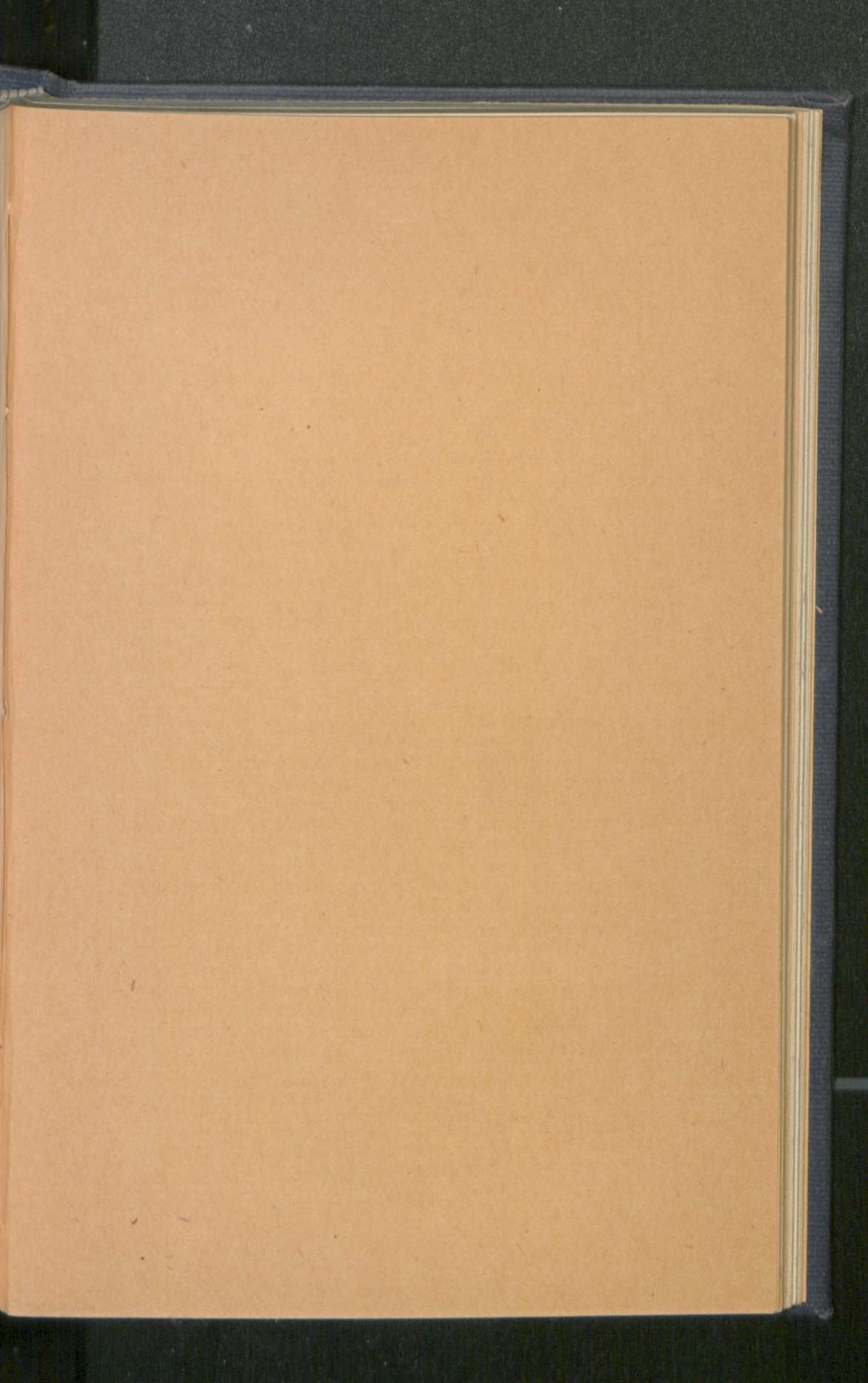
*"The desire, expressed by Washington, Jefferson and the other fathers of the Republic, for a great university at the Capital of the Nation was the first legitimate offspring of the young Democracy. You cannot separate the two. Their destinies were born together in the birth-throes of the Revolution. * * * We need trained molders of public opinion. We need new centers of distribution, not only of seeds, but of political and cultural germs. Colleges and universities must assume the task of creating experts and specialists, whereby the well-digested principles may be given to the public schools and the people generally. We need these experts, not only to*

propagate knowledge, but to discover new truths and to widen the boundaries of ascertainable truth. We must have universities that will thus make for education in the higher Democracy and for the Democracy of Higher Education. *Is it not time for the realization of George Washington's educational ambition?"*

Many memorials have been built to George Washington in the National Capital. One of the highest monuments in the world, as well as a great memorial building soon to be erected, recall his name and fame. Yet I am sure that if he were to suggest his own memorial, it would be a great, completely equipped, fully endowed university. Other things may perpetuate his fame, but this more than anything else could perpetuate and extend his influence. The desire, closest to his heart, has so far never been completely realized, although The George Washington University has done much to make it a reality. But I believe there are thousands throughout the country who will make George Washington's wish and will their will,—thousands who in a very real and practical way will become Executors of George Washington's will, and make it their duty and their pleasure to carry into effect all that he planned.

Such are our hopes and our plans, such our opportunities, our possibilities, our needs. All may not be accomplished at once; the mighty and durable cannot be created in a moment. All cannot be attempted now; the country's needs must first be supplied,—through the university where possible, in preference to the university where necessary. But, pledging it as an instrument of patriotic service, promising that, whether great or small, it shall be worthy of its name and true to its ideals, despising not the day of small things, offering freely all that we ourselves are or have, bespeaking the coöperation of the loyal citizens of all sections of the great country of which Washington is the capital, ever doing the duty that lies nearest us and mindful of all our local obligations, we nevertheless believe we may look forward and that we should strive steadily and earnestly for that goal which Mr. Justice Brewer once so glowingly portrayed in an address at one of the University's midwinter convocations on Washington's Birthday:

"On this birthday of the Father of His Country I leave with you this thought: George Washington, the testator; the people of the United States, the Executors; the bequest, a University; its domicile, the District of Columbia; its field of toil, the Republic; the reach of its ever-increasing influence and glory, the boundaries of space and time."





VOLUME XVII

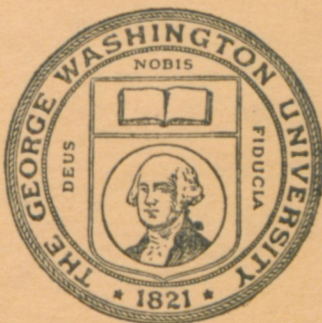
NUMBER 3

George Washington University Bulletin

ADDRESS BY

JOSEPH S. AUERBACH, A.M., Litt.D.

JUNE 5th, 1918



PUBLISHED BY THE UNIVERSITY
WASHINGTON, D. C.

MARCH, JUNE, OCTOBER and DECEMBER

Entered October 6, 1904, at Washington, D. C.,
as second-class matter under Act of Congress of July 16 1894.



THE
UNIVERSITY GRADUATE OF TODAY

BY

JOSEPH S. AUERBACH, A.M., Litt.D.

OF

NEW YORK CITY

COMMENCEMENT DAY ADDRESS

JUNE 5th, 1918

COMMENCEMENT DAY ADDRESS *

GEORGE WASHINGTON UNIVERSITY

JUNE 5TH, 1918

In a tragic hour like this, when civilization seems threatened to be engulfed in the waters of desolation, our emotions almost forbid us to turn our thoughts to aught else, than to the issue which is to determine how history shall be privileged or required to chronicle the story of the world. With confidence however that in the end the animal is not to efface man from the earth, perhaps this is peculiarly an hour—solemn always as the graduate stands upon the threshold of life—for you to take account of the things of which you are possessed in attainments and purpose. Let me therefore after the way of my profession, make of you certain inquiries, to some of which only I can suggest in part the answer, for the record of your lives will be the adequate answer to them all. Nor shall I have an apology to offer because these inquiries in a measure concern the need and duty of the hour; on the contrary an apology would be due you if they did not.

Understanding the futility and peril of any other attitude, have you by study and reflection concerning the world of to-day, acquired the conviction that the uncompromising truth must now and always be the creed and religion of American citizenship; and are you to seek after the wisdom that is the foster-child of knowledge and the faith which is grafted on the growth of reason?

* As published in part in the *North American Review* for October, 1918.

As you have been obtaining understanding of some few things, have you approached to mastery over thought and expression? Have you starved the emotional side of your nature, or confused mere emotions with ideas? Do you appreciate how knit together must be the practical with the ideal and beautiful of life? Is it your ambition to be well-balanced in judgment and conduct? Do you consider your intellectual possessions acquired here as a kind of ornamental veneer, and is to you culture a thing apart from life?

Do you realize the debt you owe to yourselves and to the State, and that it can be discharged only by a service in which the mind and the soul have the assignment of an equally important part? What in your conception is to distinguish you above your fellow-men—not alone for your own usefulness and fame—but for the purpose of paying that debt? What are you to have by way of assets wherewith to pay it, and is there in your minds any foreboding that it will be unpaid, because you shall have been obliged to confess to a sorry bankruptcy. How sincere is your gratitude toward the University that during these vital years has been the nourishing mother to you all?

Of these enquiries surely you will agree with me that the most vital is as to your attitude towards the truth; for at no time has there been a more crying need for us to understand the destructive consequences of intellectual error and cowardice.

How menacing are conditions when such an illustration as the following can be cited that we do not desire knowledge of the truth! In a recent litigation—not unlike the trial of Flaubert for the authorship of *Madame Bovary*—growing out of the suppression of a work of fiction which the author insisted was a portrayal

of certain ominous aspects of life, the advocate said to the Court:

To-day we of the multitude by turning away from the Truth whenever it presents a forbidding or even an unconventional countenance are in the degrading, perilous bondage of an intellectual formalism. It is a bondage which—by construing words to be things, emotional ideals to be ideas, creeds to be faith, and superstition to be religion, appearances to be realities, and many a new-fangled notion to be the equivalent for the old-fashioned values—has brought us to the crossroads where we must take one of two paths; that for which ignorance or craven subserviency to popular prejudice is the sign-post or that where knowledge which is unafraid is pointing the way. One is easy to travel, for it goes downwards with the heedless, motley crowd, but it abounds in treacherous places; while the other, even if it require the arduous journey amid prospects often disheartening, has the exhilaration of the upward climb with an undaunted company, and reaches the heights at last.

The author insists that in his uncompromising portrayal of character he has invited us to have knowledge of the truth by seeing life as it is and not as some visionary souls would conceive it to be. Shall the ascetic zealot, the obsequious time-server, the professional reformer, the blatant demagogue or their hired man be commissioned by the Courts to deny to him this privilege? Nor is it extravagant to say that your favorable disposition of this case will contribute in no small measure to fortify and sustain men in the determination no longer intellectually to 'halt between two opinions'—as the people of Israel, when arraigned by the prophet Elijah, were halting in their religious beliefs between Baal and Jehovah.

Have you any doubt as to the timeliness of such a plea or of its peculiar application to the world of affairs?

It cannot fairly be said, that even the Church is an uncompromising seeker after the truth. Who can have the hardihood to assert this, when an English bishop seriously ascribes not a few of the embarrassments of the present world war—which primarily was due to an unwillingness of the world to face the truth—to our intolerance of long sermons? Not long ago at a patriotic service in one of the most prominent churches of New York City, a well-known clergyman delivered the ad-

dress or sermon or whatever its proper characterization may be. On an occasion when hearers should have been stirred to the depths of their souls, the sacrilege was announced that this war had been decreed by God as a punishment to men for rejecting certain miraculous incidents of the Bible. In varying form this was harped upon, as a brutal, tribal god was enthroned in the stead of an overruling Providence. Before the Bar of that pulpit the illustrious dead of this country, that had toiled with ceaseless devotion over the intellectual and spiritual fabric of civilization, were hailed as the enemies of mankind, because of their rejection of some forbidding orthodox views of yesterday; and pragmatism—that sane philosophy whereby often we may best appraise the value of truth and culture—was denounced as a kind of ecclesiastical crime. Ascetic detachment from the world or priestly presumption furnishes no excuse for such rhetorical intemperance, at a time when not only laymen but prominent divines are insisting that belief in none of the miraculous incidents of the Bible is essential to religious faith. This is no day for attempting to revive the authority of the old scholastic formula: *Ecclesia locuta est, causa finita est*. The roll of English words which, from misuse as a cloak for pretence or even affectation, have deteriorated in meaning is a long one, and the Church should not regard it as without striking significance that many of such words, *pious, sanctimonious, fanatic, zealot* and the like, relate to religious observances. It should be very solicitous not to give occasion for adding to that long roll.

Nor can these illustrations be regarded as peculiar or extreme. For years the Church set its face against the Revised Version of the Bible, with the indefensible intimation that the revisers had taken something vital from its spiritual and literary virtue. Though according to

scholars the Revision has faults, its superior accuracy has never successfully been impugned. It was written too with reverent pen, and particularly in the renderings of the poetical and the so-called prophetic books it represents a marked advance over the King James Version in stately diction, arresting eloquence and processional beauty. It is likewise true that if proper recourse were had to the Revised Version and to the results of scholarly criticism, errors would be disclosed to which the Church in creed and doctrine and at very solemn services still adheres.

Few well-informed laymen are not conversant with these facts as to the books of the Bible: That many of them were composed at a time wholly remote from the period to which they relate and by persons other than those to whom they are attributed; that few are without emendations and additions by others than the accredited authors; that often the writer in a later age, in order to give greater currency to the work and thus arouse the people from their spiritual and, perhaps temporal bondage, appropriated the name of some noted man of past generations; that the prophets were not foreteller but forthtellers, and that out of the apocalyptic literature immediately preceding the Christian Era grew much of the doctrine of the New Testament. Nevertheless the Church as an institution has not taken pains to disseminate such information which, when properly interpreted, adds immeasurably to the historic and spiritual value of the Bible, and to the high-calling of religion; often it can scarcely be said to have assented to such information.

The Church should be at the head of the advancing column of knowledge, and not content merely to be in the ranks, much less slothfully and ignominiously to lag behind; but above all things it must not put itself

again, as so often through days past, in opposition to that advance. It will not suffice for the Church to insist that it has accepted the truth; it must be able to say, in the words of Jeremiah, that it is valiant for the truth. Can the Church, quickening as has been and should continue to be its mission, fairly deny that, at times, it has not seemed willing to pause longer than did Pilate for a right answer to the abiding question, "What is truth?"

It is abundantly clear to-day that the disinclination of the world to face the truth is mainly answerable for this war which has brought us to the brink where we look into a frightful abyss. A mad nation, had before all men—in book and lecture and degenerate revelry—registered its arrogant purpose to rule or ruin the world. It seemed the easier course to disregard the warning.

Even after the rude awakening of our Allies, we slept on comforted with an elusive dream of peace through a compromise with barbaric greed and crime, when our dreams should have been nightmares; though if we are to apportion the responsibility for this error, a heavier burden will rest upon France and England than upon ourselves. For they, far better than we, could see the blackening war cloud and hear the mutterings of the disastrous storm which was so soon to burst upon the world. France, whose frontiers touched the frontiers of Germany, though alive for years to the menace of its aggression, was for the moment lulled into the almost fatal diversion of staging the farce and burlesque of the Caillaux Trial before a wondering world. England turned a deaf ear to Lord Roberts, as he pleaded in vain for his country, by the addition of a few hundred thousand men to her expeditionary forces, to make ready against the evil day to come—"The Day" of

the brutal toast, when German world-dominion in all its terror was to rise on the ruins of the British empire. His beseechings were but "devilish speeches" and his "scheme" was "more than anything else a plot for the destruction of Liberalism and for the abolition of civil freedom." The hero who had added so much glory to English arms, was covered with obloquy in the Court of Public Opinion and was threatened with the ignominy of a cancellation of his pension. All the civilized peoples of the world, deaf to the voice of the truth, in varying degree were guilty of an awful error.

Precisely as we are to reverence truth and knowledge we must hold fast to the love of that beauty—born of the wedlock of mind and soul—which has been the faith and inspiration of the creative genius of seer and prophet and poet. No one of them without its possession has reached to the highest achievement. Even Keats—with his foolish failure to utilize a supreme gift of imagination—"loved the principle of beauty in all things," knew that "What the imagination seizes as Beauty must be Truth," and ended with these lines his inimitable Ode:

"Beauty is Truth, Truth Beauty,"—that is all
Ye know on earth and all ye need to know.

As we read the little he left to immortality—though perhaps it was comparatively much considering how early in life Death claimed him—we are entitled to think that his love of beauty would have taken him up to heights not far below the abiding place of Shakespeare himself.

Huxley with all his clairvoyant vision into some aspects of life cannot be accused of undue idealism. Yet listen to his inspiring words as to mere beauty in the world of Art!

But the man who is all morality and intellect, although he may be

good and even great, is, after all, only half a man. There is beauty in the moral world and in the intellectual world; but there is also a beauty which is neither moral nor intellectual—the beauty of the world of Art. There are men who are devoid of the power of seeing it, as there are men who are born deaf and blind, and the loss of those, as of these, is simply infinite. There are others in whom it is an overpowering passion; happy men, born with the productive, or at lowest, the appreciative, genius of the Artist. But, in the mass of mankind, the Aesthetic faculty, like the reasoning power and the moral sense, needs to be roused, directed, and cultivated; and I know not why the development of that side of his nature, through which man has access to a perennial spring of ennobling pleasure, should be omitted from any comprehensive scheme of University education.

It is fealty to beauty expressing itself in the love of truth and justice that in great crises of life is able to bend destiny to our will. In our superficial way we had spoken of the levity of the Parisians and the French generally, and even Matthew Arnold,—in one of his American lectures by which, of all his prose writings, he wished most to be remembered,—has some like ill-conceived thoughts. We had failed to understand that the resolve which made Paris beautiful and all the other cities of France fair to look upon, was but one manifestation of a spirit whose creative thought has had expression in a literature that is immortal. For when awakened that spirit was found disciplined and eager to shed blood in trench and onset, not alone to free France from the ruthless invader—for she long ago could have secured a separate, selfish peace—but to keep inviolate for our people and for all peoples, the civilization of the world.

Then too we must understand that genuine emotion is often but the fruition of lofty ideas even in normal times; and when the call of duty is heard it can exert an electric effect upon thought whereby sloth is transformed into action and peril into safety. Properly interpreted it is synonymous with devotion in days like these, and is of

the very soul of love of country. Do we need more convincing proof of this than the well-nigh miraculous battle of the Marne and the first battle of Ypres; and can we doubt, that when the German hordes threatened Verdun by their murderous assault, the uttered vow *They shall not pass* invested with invincible strength the soldier of France?

Yet while never minimizing the inestimable value of such genuine emotion upon conduct as well as thought, we must accommodate our exhibition of it to the appropriateness of the occasion; for misdirected energy is often more mischievous than inertia. To the brain must be conceded such command over the feelings, that each of us may be able to say with Walt Whitman "I am afoot with my vision," and to have a right understanding of an injunction like this of the Apocrypha "Weigh thy words in a balance and make a door and a bar for thy mouth." Horace, in his refreshing and inspiring Sixth Epistle of the First Book beginning with the words

Nil admirari prope res est una,

—which are almost as frequently misinterpreted as they are quoted—says:

Insani sapiens nomen ferat, aequus iniqui,
Ultra quam satis est virtutem si petat ipsam.

And lest there be doubt of his meaning, he adds:

Virtutem verba putas et
Luceum ligna?

The voice must be lifted up discriminatingly even in prayer; and wisdom adopted Juvenal as a favorite son, when in that matchless satire he besought mankind to invoke for itself *mens sana in corpore sano*, and depicted how grim ruin can be visited upon us through the granting of our improvident appeals by the too indulgent Gods.

Never let us confound such genuine emotion with mere spasmodic ebullition of the heart through any of its lachrymose manifestations. Sentiment must not permit itself to languish into sentimentality; and if visions seek the borderland of idle dreams, the Imagination with all its strength of wing will soon exhaust itself in aimless flight.

Nor must we fail to keep company with elevating thoughts on the journey we are to make. And we cannot be in that company unless we cherish the books of literature, for except through the glorious vistas they open up to us we cannot fully see nature or even God. Men may not prefer to continue in a sordid environment and remain unaffected by its contamination. To the alphabet and the simple words of life you have been taught, you must ever desire to add that knowledge which may be yours almost for the asking. You must have the prudence to put out at interest the little you have been taught here, until it shall multiply abundantly, and not choose to fritter that little away like spendthrift or gambler in flippant thought and unenviable conduct. One who goes out from the University willing to forget that Horace and Virgil and Homer lived or to permit the creative books of the world to be dust-covered ornaments on the library shelf, cannot truly live his life; he will be fortunate if he avoids making a lamentable mess of it for himself and for mankind.

Think too of the men content to pass their days without knowledge of the Bible for their inspiration! Some do this through pure heedlessness, and others from a conviction that inasmuch as the Bible can no longer be regarded literally as the inspired word of God, it is to be permitted to fall from its high estate. What a tragedy all this is; for not until the Bible was stripped of the false-work of crudities and misinterpretations could it be seen in its majestic beauty. No one

can fully understand life unless thrilled by the wondrous diction of the Scriptures, which has been the common speech and one of the chief glories of the English people. Men that no longer hold the Bible in esteem—"which," as Macaulay so truly said, "if everything else in our language should perish, would alone suffice to show the whole extent of its beauty and power"—do not wish to stand on resplendent mountain peaks, but are content to be in the valley without the companionship of light.

Read the worthy books of the world that they may minister to your highest gratification and intellectual and spiritual joy. This, however, should not be the sole or perhaps the primary purpose. Read great thoughts, think great thoughts, dwell with great thoughts, so that you may utter great thoughts when you are to speak forth as the staunch and convincing advocate of right and wisdom in the momentous days that are upon us.

For if doubts existed that vast changes impend in the life of society, of our nation and of the world, this war has resolved them all. Although considering yourselves bound by those worthy precedents which have met with general acceptance—since form is often of the substance of things—it is essential for you through familiarity with the wisdom of the ages and by independent reflection, to understand the extent to which some old conceptions of life shall undergo revision. Change must be a requirement of progress and not the dictate of caprice or fashion. When later the consideration of this grave readjustment is properly uppermost in the minds of men, and there shall be the need for your voice to be heard in an ominous debate, it will not have a responsive audience, unless you know the abyss between the froth of rhetoric and the persuasive restraint of a compelling eloquence. Only intimacy with high thinking will give

you that mastery over expression which is mastery over opportunity.

Remember however that you cannot attain to this mastery over expression, if you look upon graceful, forceful language as the mere adornment of speech, like some showy raiment to be assumed as for a pageant and then laid aside. For notwithstanding the well-defined line of demarkation between the language of public address and of conversation, no one can persist in the jargon of slang or the unexpressive colloquial phrase and hope to have at his command convincing language for formal occasions. The elusive thing we call style is made up of many elements impracticable to dwell upon in an address like this, but if it lack the inevitable words of grace and precision it is not genuine but spurious utterance. No amount of ornamentation will supply the defect of symmetry and beauty of proportions; and to a greater degree than we often realize does slovenly expression both reflect and promote slovenly thought.

It is common knowledge and not confined to those advantaged by university training, that our so-called Anglo-Saxon language by borrowings through adoption or adaptation from all tongues—ancient and modern—has endowed us with a heritage of which we should be the grateful beneficiaries. We often forget, however, that a sacred trust devolves upon us to add to its value; or if we may not do this, surely we are not to diminish that treasure by disregard of the obligations of our privileged possession. How pitifully ineffectual is the presentation of a subject, when there are drafted into service overworked words wholly unfitted for the use to which they are assigned, whilst unfatigued synonyms are rejected from ignorance, or their place usurped by an ostentatious parade of the imported foreign phrase! Never permit yourself to

doubt that without a well-grounded knowledge of the almost infinite resources of our language, you will be like a mechanic without tools; and do not make the mistake of supposing that in or out of court a good cause necessarily argues itself.

I know you are familiar with such thoughts. But I am recalling them to you, because of their immediate application to conditions in the world which are to follow upon the peace of a great victory; for we should be deeply concerned lest we find ourselves as unprepared for the problems of peace as we were for the problems of war. As high endeavor contends with selfish aim and wisdom with ignorance, the most vital issues concerning not only private property rights but the interests of the Republic are to be the subject of absorbing contention. Time permits me only to enumerate a few of them: The true relation of the State to the individual and the individual to the State; the limit of right to Government of visitation and regulation as to private industry as well as *quasi*-public corporations, in substitution for the hazardous experiment of governmental ownership; the just attitude of labor towards capital and capital towards labor; whether labor shall be paid by the mere abundant wage or, in addition, by a participation in the fruits of its creation, and the voice it shall have in the councils of industry; to what extent shall we add to or take from our religious and political and economic creeds; which if any of the tenets of Socialism shall be adopted or adapted for our guidance; in what particulars if at all shall our theories of constitutional government undergo revision; to what enduring purpose shall our quickened love of country be directed in the day of peace, and what kind of universal military service in and out of institutions of learning shall we then exact of youth; what then shall be the character of our alliance with civilized nations.

These along with many other questions, which have so often been the occasion for declamation of demagogue and professional altruist, are soon to be answered by men that fear God and serve the State. And when the door of opportunity thus stands wider open than ever before for Wisdom to pass through, shall not the University graduate of to-day, with shining insignia of disciplined ardor and intelligence, be foremost in her great company?

The University graduate should yield to no one in love of letters. As the years go by he should gaze with an increasing joy upon the wonderland of the imagination, which lies outstretched before us with its beckoning beauty. He should know full well that there are dreams to be dreamed even in the day time, and that a man must have recourse to a hobby for his mental health as he would sit astride a horse for his physical health. Yet too many dreams must not be dreamed in detachment from life, and the hobby must not be a foolish plaything with which we rock ourselves to unavailing sleep. Let it be our belief—much accentuated by the happenings in the world of to-day—that as never before must knowledge and truth be desired, not alone for themselves, but for the inseparable relation they have to the call of God to us to do the work of the world.

If you would understand fully what I mean by this, read *Idea of a University* by Cardinal Newman, and Huxley's lectures on *Science and Education*; and though to compare favorably even the style of Huxley with that of Newman may seem to some a kind of literary heresy, I am guilty of it. None should wish to detract from the just repute of Cardinal Newman's book; but candor compels one to say that throughout it there runs a kind of special pleading for knowledge and truth in association

with some discarded religious beliefs. The enthusiastic defense by one of his admirers in the preface of a lately issued edition of the book says of Newman, that he set his face rigorously against the school of religious thought known as Modernism. How depressing and confusing is such a view; and slight wonder that these lectures failed of any real accomplishment, with the author's shut-in horizon as to truth which, in the main, he saw but from cloistered walks! Put alongside of this book that of Huxley's and again and again in the refreshing contrast of its bracing atmosphere, you come upon such exhilarating lines as these:

In such a University, the force of living example should fire the student with a noble ambition to emulate the learning of learned men and to follow in the footsteps of the explorers of new fields of knowledge. The very air he breathes should be charged with that enthusiasm for truth, that fanaticism of veracity which is a greater possession than much learning; a nobler gift than the power of increasing knowledge; by so much greater and nobler than those, as the moral nature is greater than the intellectual: for veracity is the heart of morality.

If love of truth be our chief article of faith and pursuit of knowledge a religion, all life takes on a new and glorious aspect. Drudgery is set to the music of a song, sight prolongs itself into vision, dreams come true, intellectual serfdom is transmuted into sovereignty of the mind, whilst darkness with sham, pretence and all its baneful brood slinks off in terror of the coming Dawn.

For death takes toll
Of beauty, courage, youth,
Of all but truth . . .

Let me say now a few words as to the University that has laid the foundations so well for your education—for I know from the Faculty here something of the stuff of which you are fashioned—whereon you are to build the edifice of your character and achievement;

that has pointed out the way you are to choose, though unable to accompany you far on the journey.

If during these undergraduate years you have not had here some of the advantages—and they are distinct advantages—of a sojourn within walls far removed from the world of activity, you have been in a Capital athrob with the fervor of a new national life. It cannot but be that contact with all this has deeply affected your thoughts and aims; and though you may regret the loss of that other university experience, bear in mind that your loss has not been without an accompanying gain. Nor will the university of to-morrow be in all respects the university of yesterday. The consensus of intelligent opinion is that after this war Oxford or Cambridge will not wholly return to the old ways, and that the educational institutions of this country will not be as they once were.

What is your thought about this University as you go out into life? Is it a deep and an abiding love? What claim is she to have upon you in the future? Do you feel towards this institution as Daniel Webster felt toward Dartmouth College, when, in words broken with emotion, he said:

Sir, you may destroy this little institution; it is weak; it is in your hands! I know it is one of the lesser lights in the literary horizon of our country. You may put it out. But if you do so you must carry through your work! You must extinguish, one after another, all those greater lights of science which for more than a century have thrown their radiance over our land. It is, sir, as I have said, a small college. And yet there are those who love it.

As one of her adopted sons, I have been asked to do my small part toward making this University as great as is the opportunity. Yet if you do not entertain toward your University a feeling kindred to that which Webster had for Dartmouth College, she cannot and

ought not to become this greater University, for she has no purpose to accomplish.

Let me give you an illustration of the thought I wish to convey. Under old conceptions and definitions The Corporation was looked upon largely as an artificial being or legal entity; and this idea still survives in some legal aspects. The modern-day view of the corporation however, is that it is a collective name standing for the aggregate interests of all its members. So it is with the University as an institution. It is not an abstraction but a reality—to be made a living force by the hopes and devotion of all those whom their Alma Mater has nourished, and who together constitute the University.

We declaim overmuch about American ideals, but any such declamation which fails to match with the performance of simple duties is not a good asset of the Republic. Have visions but let them be extensions of sights. Cherish ideals, but let them be the outgrowth and fruitage of ideas. Let civic creeds be not mere platform deliverances; and let public zeal proceed from a love of State which shall have its roots thrust deep down in a consciousness of worthy achievement, or at least worthy effort in all that has to do with our daily walk of life.

To such end we must often begin at the beginning; and surely it is not beneath your dignity to have for one of your beginnings the fixed resolve that this University shall profit by your being of her children. May none of you forget—and this is not only accepted Scripture as a guide for ethical conduct, but a good maxim for the world of affairs—that in order to earn the right to be the ruler over many things we must be faithful over a few things; and your unalterable determination to have this University an increasing power in the land will surely be a true faithfulness over one of these few things. And such determination will in part pay the debt of gratitude

you owe to the distinguished President of this Institution, and supplement the meager recompense to the devoted members of its Faculty for their untiring service to you and to the sacred cause of learning.

Be not so foolish as to hope to become the worthy man or woman if you are her thankless child. Let your vow be that she shall be as "A city set on a hill, that cannot be hid." Remember, nevertheless, that by no idle thought or legerdemain or lordly fiat can this University become thus splendid in widening influence, but only by the unremitting watchfulness of those who shall love the very stones of her walls.

It had been my intention to end my Address here. But what I have said seems so trivial beside the momentous happenings in the world, that I cannot part company with you without adding something as to your peculiar contribution to our Country in this hour of her direst need—not alone or primarily of money, time or talent but of yourselves, according to the abundance of your possessions. In considering what that contribution shall be, let us put far away from us such words as "our bit" or "our best"—words which have become largely worthless with much handling, and which had little value when newly coined. The University Graduate should have that to give which will be real and practical as well as academic in the true sense. Do not however forget that it is not without justification that *academic* has come to be a kind of reproach, as synonymous with that which is formal and speculative and even visionary. If ever in history surely it is to-day that the University training is to be weighed in the balances. It must not be found wanting.

In the oft-quoted words of *Areopagitica*, which have now a new significance for the world, Milton says:

Methinks I see in my mind a noble and puissant nation rousing herself like a strong man after sleep, and shaking her invincible locks; methinks I see her as an eagle mewing her mighty youth, and kindling her undazzled eyes at the full midday beam; purging and unscaling her long-abused sight at the fountain itself of heavenly radiance.

Nor was what Milton thus saw in his vision an abstraction, any more than is the University of which I was speaking a moment ago. Though rooted in the organic law of a Constitution, that nation could only be a living growth, when there had been breathed into it the devotion, the dreams, the aspirations and the prayers of a consecrated people. So must we feel towards our own Country; and the university graduate should make his contribution to Her the more impressive by way of saving response and deed, for its source is at the exhaustless fountains of living waters. He above all others can be quite sure that the emotion born of high purpose will traverse seas and cross continents to inspire our soldiers—who typify all our men under arms—as they contend against evil forces wherewith there can be no compromise. For the spirit of these men will in the end but reflect the spirit of those for whom they fight.

What then shall that spirit be in us? Surely something even more embracing and devotional than it now is, quickened though it has become. For while no loyal American should be so foolish as to consider our citizenship at the outbreak of the war as not abreast of that of France or England, or to believe that, as a man, the American soldier was not the equal of the French and the English soldier, or that by experience he could not rival them in discipline and valor, we must nevertheless generously admit that France and England have outstripped us in consecration and heroic endeavor. Unquestionably this in large measure has been due to the agony and bloody sweat of their awful trial; yet to

whatever cause it be traceable, the knowledge summons us to a mighty awakening. For the Soldier of the Union cannot wholly be as those other soldiers, unless by the prodigal gift of ourselves to our Country he like them shall become the incarnation of a people's regenerate life.

Fortified and sustained by this inspiring thought— so made a part of ourselves that we no longer are called upon to refer to it, any more than the man of honor needs to carry about with him the Decalogue as a guide for conduct—let us revert to the imperative duty of the hour. Practical in our thoughts may we remember always that if it be true that Hell is fighting for ascendancy over Heaven, it is equally true that fiends are at war with men. Having pondered much and resolved mightily we must now translate our faith into action. President Wilson, as the inspired spokesman of us and our Allies, has nobly stated the aims and the will of the civilized world; but ceaseless repetition of his words will detract from their dignity, causing them to have a deteriorated meaning, as was true of the words of high purpose referred to a few moments since.

The time has come for us to realize as never before, the primary things for which we fight. On some tomorrow there will be the coming war against besetting greed, and labor truculent and capital with a whip; against the arrogance of privilege, and the wrong that traffics in the virtue of the weak or buys preferment for dishonored aim; against spurious fame, and glut of wealth that guile auctioneers in the market places for souls, and against pretense and all the petty manifestations of unworthy citizenship. But it is a war to be postponed until a certain victory is first won in *this* war. Otherwise instead of a transfigured edifice for the abode of the nobler civilization we have persuaded ourselves to

expect, we shall see only some Castle in Spain of our dreams, floating in air as do all such castles.

The Colors call to us now to discharge our immeasurable debt of gratitude to our Allies and to save our own imperilled land. And in order that to-day of all days we may understand clearly what is required of us let us visualize this battle line in France, with the thought burnt into our brain of the anguish and waste places of earth, if that line which has been bent shall at last be broken.

We are to fight to prevent that line from being broken and to advance it to the Rhine, and if the sacrifice of life be not too great, to have our armies occupy the territory of Germany; or at least we are to build a wall of bayonets about this mad nation, until she give evidence by abasement and penitential deed, that she is entitled to the absolution which will re-admit her into the family of nations. We are to fight to give back to France—the France of splendid chivalry and unconquerable will—the fair provinces of Alsace and Lorraine, by the loss of which she was disfigured in an unrighteous war, brought on by Bismark's now admittedly forged Ems telegram. Then wherever restoration can take place, we are—out of indemnities exacted of Germany—to restore the subjugated parts of Belgium and France of which the German has made in truth "An Empire of Death"; leaving to an admonishing memory such things as cannot be restored as Shrines and Holy Places, whither men shall pilgrimage in days to come, to dedicate themselves anew to a contending faith, which shall smite down the brutal hand of might whenever it reaches out to clutch at the throat of right and virtue. We are to fight to stanch the wounds of Belgium bled all but to death. We are to fight for England, our beloved mother-country, whose sentinel ships have stood between us and the murderous crews at Kiel. Her armies too have stood by the side of those of France,

who united now with England may well repeat the words which Shakespeare put into the mouth of King Philip, when addressing King John in the day of their warfare before the walls of Angiers:

England thou hast not sav'd one drop of blood
In this hot trial, more than we of France.

If gratitude be not as La Rochefoucauld declares merely the secret desire for favors to come, but the highest devotional instinct with which God has endowed mankind, let us postpone, and if need be for the moment suppress utterly, humanitarian thoughts of the ideal State and a finer world, until we shall have paid back to Belgium and France and England and Italy as well, the supreme debt of honor we owe to them for having saved us from an awful doom. If the American Republic stop short of this, our Allies—speaking for the suffering nations, and for God himself—shall be entitled to say in their despair: She left us to the mercy of our enemies and is of those

That keep the word of promise to our ear
And break it to our hope.

Then too have this remaining thought ever present with you, as you go out from this University to fight or to counsel others to fight. Understand that although the soldier is to consider himself the crusader and the messenger of God, he is also to be the Soldier of the Union. He of course is to have in mind a world to be born again to righteousness, but he must go forth to avenge the death of our helpless men and women and children murdered on the high seas, and the dishonor to our Flag. He is to save our homes and our defenceless loved ones; and above all things, he is to fight to keep from off the hallowed person of the American woman the defilement which is a thousand deaths.

And, in the end, the common interests of civilization are to dictate what the resulting peace shall be, though it must be "as harsh as truth and as uncompromising as justice."

Only if we glory in these thoughts, looking upon the lavish gifts of our possessions and of ourselves for the well-being of the Republic and of mankind as a precious privilege, are we entitled to share the incorruptible faith of Isaiah that the Lord of hosts shall be for strength to them that turn back the battle at the gate.

What wondrous words are those of Isaiah!

In that day will the Lord of hosts become a crown of glory, and a diadem of beauty, unto the residue of his people; and a spirit of judgment to him that sitteth in judgment, and strength to them that turn back the battle at the gate.

He too, you recall, was speaking of a wavering line of battle surging into the city and back again to the gate where the foe was overcome. Again there is the bent line, yet of such proportions now that on its steadfastness depends not the fate of a little city, but the fate of the world. The American soldier has loitered long but he is on the line at last, and at an hour when that line would surely be broken but for his coming. What a thought to thrill every fiber of our being, that we are to be of the Saviours as we have been of the Saved!

If to that Soldier we thus give all that we have to give, adding to his strength this strength of our fervor and consecration and of our will now to prevail, and to build in the day of Peace a new Kingdom upon Earth, we may aver in all reverence: The Lord of hosts shall not venture to withhold of His strength from them that are to turn back the battle at the gate.



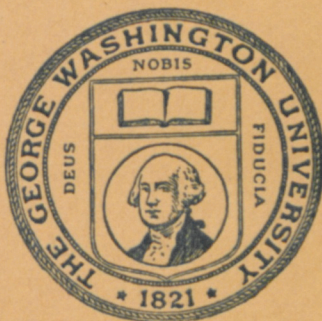
VOLUME XVII

NUMBER 4

George Washington University Bulletin

REPORT OF THE TREASURER

1917-1918



PUBLISHED BY THE UNIVERSITY
WASHINGTON, D. C.

George Washington University Bulletin

REPORT OF THE TREASURER
for the year ended August 31, 1918

Volume XVII, Number 4
December, 1918

PUBLISHED FOUR TIMES A YEAR; IN MARCH, JUNE,
OCTOBER AND DECEMBER

Entered October 6, 1904, at Washington, D. C., as second class matter
under Act of Congress of July 16, 1894.

George Washington University
Bulletin

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under the authority of the Board of Trustees

Report of the Treasurer

October 16, 1918.

THE BOARD OF TRUSTEES OF GEORGE WASHINGTON UNIVERSITY:

GENTLEMEN: I have the honor to submit herewith a report showing in detail the financial operations of the University for the fiscal year ended August 31, 1918, and exhibiting the condition of Trust Funds, as required by the By-Laws of the University, certified by the American Audit Company of New York.

Trust Funds were received during the year as follows: Congressional Professorship of English Fund \$4.23; Alumni Professorship Fund \$50.60; Nellie Maynard Knapp Scholarship Fund \$1,000.00; Endowment Restoration and Accretion Fund \$2,100.00; Denman Law School Fund \$62.60; Law School Fund \$597.25; Jacques Law School Fund \$177.33; Jacques Medical School Fund \$177.33; Law School Building Fund \$2,015.00; Fifty Thousand-Dollar Building and Grounds Fund \$2,565.00; Administration Building Fund \$2,000.00—Total \$9,849.34. Payment from Trust Fund was made as follows: \$1,000.00 paid on mortgage 2023 G Street. The Trust Funds aggregate \$501,772.85, a net increase of \$9,749.34.

Two New Trust Funds were established during the year by order of the Board of Trustees:

"Administration Building Fund," an executory trust fund to be used for the purchase of the property at the northwest corner of 21st and G Streets, and

"Endowment Restoration and Accretion Fund," a general endowment for the restoration of funds used for general purposes prior to 1910.

Property values for Educational uses were increased by the purchase of an unimproved lot, at 2105 G Street, at a cost of \$2,795.17; by new entrance, enlargement of heating plant, and fireproofing at 2023 G Street at a cost of \$2,686.73; and an expenditure of \$3,462.86 for remodelling, and installing a heating plant at 2101 G Street in anticipation of its eventual purchase for use as an administration building, under the terms of the option running for five years. The present total value of educational real estate is \$507,442.49, an increase for the year of \$8,944.76.

Equipment costing \$876.17 and Library Books costing \$1,506.41 were added during the year. After writing off depreciation of 2% on equipment and 1% on library books, the book values stand as follows: Equipment \$93,896.71; Library Books \$45,076.89.

The Mortgage Debt of the University was reduced by the payment of \$4,000.00 on 2023 G Street and of \$470.37 on 1300 L Street.

REPORT OF THE TREASURER

Total reduction \$4,470.37. The Mortgage debt at the close of the fiscal year is as follows:

2023 G Street	\$ 7,500.00
2017 G Street	6,500.00
1016 13th Street	4,500.00
1300 L Street	3,392.13
Total	<u>\$21,892.13</u>

Contributions, other than those mentioned under Trust Funds, were received as follows:

Belgian Scholarship Committee, for lectures..	\$600.00
Women's University Club, for furnishings...	70.82
James B. Lambie, improvements to grounds, 2101 G Street	50.00
Donations for prizes	110.00
Total	<u>\$830.82</u>

Property under lease for educational purposes is as follows:

2101 G Street, leased from December 1, 1917, for five years, with privilege of purchase during that period.

2024 G Street, leased from October 1, 1917, for two years.

Fifth and sixth floors of the New Masonic Temple building, leased from September 1, 1918, for two years.

ASSETS AND LIABILITIES

5

A comparative Summary of Assets and Liabilities of the University for the past two years is shown:

COMPARATIVE SUMMARY OF ASSETS AND LIABILITIES

1916-17 AND 1917-18.

	1916-1917.		1917-1918.		Net	
	ASSETS.		ASSETS.		Increase.	Decrease.
Cash in bank, general funds.....	\$26,706.29		\$18,192.35		\$8,513.94	
Cash in bank, endowment income	10,320.04		9,912.74		407.30	
Trust funds	492,023.51		501,772.85		\$9,749.34	
Educational plant	498,497.73		507,442.49		8,944.76	
Educational equipment	93,020.54		93,896.71		876.17	
Library books	43,570.48		45,076.89		1,506.41	
Accounts receivable	9,155.13		6,942.06		2,213.07	
Perpetual insurance deposits.....	1,406.25		1,406.25			
Totals	\$1,174,699.97		\$1,184,642.34		\$21,076.68	\$11,134.31
						\$9,942.37
	1916-1917.		1917-1918.		Net	
	LIABILITIES.		LIABILITIES.		Increase.	Decrease.
Notes, secured by deeds of trust..	\$26,362.50		\$21,892.13		\$4,470.37	
Liability to Endowment Funds....	354,928.81		352,928.81		2,000.00	
Accrued expenses	253.79		339.81		\$86.02	
Student activities fund, held in trust	350.68		97.75		152.93	
Totals	\$381,795.78		\$375,258.50		\$86.02	\$6,623.30
						\$6,537.28
Total Net Resources	\$792,904.19		\$809,383.84		\$16,479.65	

Respectfully submitted,

CHARLES W. HOLMES,
Treasurer.

AUDITOR'S REPORT

Report of the American Audit Company

October 16, 1918.

We have examined the accounts and records of GEORGE WASHINGTON UNIVERSITY for the year ended August 31, 1918, and submit our report, including Exhibits, as follows:

- EXHIBIT "A"—Balance Sheet,**
As at August 31, 1918.
- "B"—General Surplus,**
As at August 31, 1918.
- "C"—Medical School Surplus,**
As at August 31, 1918.
- "D"—Law School Surplus,**
As at August 31, 1918.
- "E"—Revenue Account,**
For the year ended August 31, 1918.
- "F"—Department of Arts and Sciences,**
For the year ended August 31, 1918.
- "G"—Department of Arts and Sciences Summer School,**
For the year ended August 31, 1918.
- "H"—Law School,**
For the year ended August 31, 1918.
- "I"—Law Summer School,**
For the year ended August 31, 1918.
- "J"—Medical and Dental Schools,**
For the year ended August 31, 1918.
- "K"—University Hospital,**
For the year ended August 31, 1918.
- "L"—Statement of Cash Receipts and Payments,**
For the year ended August 31, 1918.
- "M"—Trust Funds,**
As at August 31, 1918.
- "N"—Endowment Funds Investments,**
As at August 31, 1918.
- "O"—Executory Trust Funds and Investments,**
As at August 31, 1918.
- "P"—Endowment and Executory Trust Funds, Income
and Expense,**
For the year ended August 31, 1918.

CASH: \$18,192.35.

We counted the cash on hand October 1, 1918, and reconciled the Cash Account with bank pass books as at August 31, 1918, finding cash in accordance with the balance shown by the books and deposits in banks, as per bank pass books and statements.

ACCOUNTS RECEIVABLE: \$6,942.06.

This amount consists of fees, etc., due for the term 1917-1918, from students in the various departments, and other accounts receivable as follows:

School of Graduate Studies	\$ 569.13	
Columbian College	1,458.44	
College of Engineering	930.42	
Teachers' College	74.75	
Summer School	776.22	
	<hr/>	
Total, Department of Arts and Sciences.....		\$3,808.96
Law School	605.37	
Law Summer School	15.00	
	<hr/>	620.37
Medical School	328.35	
Dental School	130.25	
	<hr/>	458.60
Accounts due University Hospital from patients for the year 1917-1918		614.49
Income from Endowments, available, but not trans- ferred to University account as at August 31, 1918		1,439.64
		<hr/>
		\$6,942.06

The balances standing in accounts due at September 1, 1917, remaining unpaid at August 31, 1918, are considered worthless and were charged against the respective Surplus Accounts.

DEPRECIATION:

Depreciation on the Library books, University Equipment and Hospital Equipment was charged off to the amount of \$2,040.13.

REAL ESTATE:

During the year a lot at 2105 G Street, Northwest, was purchased, and permanent improvements were made to the property 2101 G Street, Northwest, to the value of \$3,462.86. This amount is carried as an asset in this report, and will be charged off as an expense in subsequent years unless the property is purchased, in which event it will become a permanent asset.

NET INCOME:

The Net Income for the year from all departments, exclusive of the University Hospital, was \$13,901.05, as shown by Exhibit "E."

GENERAL SURPLUS: \$269,301.53.

The changes in this account since August 31, 1917, are shown by Exhibit "B."

AUDITOR'S REPORT

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MEDICAL SCHOOL SURPLUS: \$27,147.62.

This account includes the surplus of the University Hospital and Medical and Dental Schools at August 31, 1918, as shown by Exhibit "C."

LAW SCHOOL SURPLUS: \$1,249.10.

This account represents the Law School Surplus as at August 31, 1918, as shown by Exhibit "D."

TRUST FUNDS:

On October 15, 1918, we inspected the securities representing the Investments of the Endowment and Executory Trust Funds, in stocks, bonds and notes, as per Exhibits "N" and "O."

We verified the cash balances as at August 31, 1918, representing uninvested principal \$8,686.76, and unexpended income \$9,912.74, of the Endowment and Executory Trust Funds with the bank pass books and statements.

Respectfully submitted,

THE AMERICAN AUDIT COMPANY,

By C. R. CRANMER,

Resident Manager,

Approved:

F. W. LAURENTZ, *President.*

Attest:

C. W. GRETCHINS, *Asst. Secretary.*

GENERAL ACCOUNTS

BALANCE SHEET.

As at August 31, 1918.

<i>Assets</i>			<i>Liabilities</i>		
Cash:			Trust Notes:		
In Bank	\$ 17,067.35		Notes secured by Deeds of Trust on		
Petty Cash Funds	1,125.00	\$ 18,192.35	2017 G Street, N. W.	\$ 6,500.00	
Accounts Receivable:			2023 G Street, N. W.	7,500.00	
Students' Ledger, 1917-1918.....	4,887.93		1016 13th Street, N. W.	4,500.00	
Hospital Accounts, 1917-1918.....	614.49		1300 L Street, N. W.	3,392.13	21,892.13
Endowment Income Receivable.....	1,439.64				2,067.35
Prepaid Accounts		6,942.06	Accrued Salaries Summer School.....		230.28
Insurance:		1,957.80	Interest Payable		97.75
Withdrawal value of Perpetual In-			Student Activities		
surance Policies		1,406.25	Liability to Endowment Funds:		
Libraries—Books:			Secured by Deed of Trust, dated De-		
Arts and Sciences	27,127.63		cember 1, 1910, on Medical and		
Law School	16,463.65		Hospital Lands and Buildings, 1335,		
Medical School	4,639.29		1339 and 1341 H Street, N. W.....	323,430.23	
			Less amount voted by the Board of		
			Trustees to create a fund for the		
			rehabilitation of impaired Trust		
			Funds	2,000.00	321,430.23
Less Depreciation	\$ 48,230.57	45,076.89	Liability of the University General		
	3,153.68		Property:		
Equipment:			To Denman Fund	7,179.32	
Arts and Sciences	44,686.51		To Specific Endowment Funds In-		
Law School	3,247.51		come which was applied to current		
Medical School	29,956.80		expenses prior to August 31, 1910	24,319.26	
University Hospital	23,891.74				31,498.58
			Surplus:		
			General Exhibit "B"	269,301.53	
			Medical Exhibit "C"	27,147.62	
			Law Exhibit "D"	1,249.10	\$297,698.23
Less Depreciation	\$101,782.56	93,896.71			
	7,885.85				

GENERAL ACCOUNTS

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Real Estate:

Medical and Hospital Lands and Buildings, 1335, 1339 and 1341 H Street, N. W.	403,599.93
2017 G Street, N. W.	18,218.03
2023 G Street, N. W., including 3 lots adjoining Engineering Laboratory Building	42,686.73
2025 G Street, N. W.	8,164.79
2027 G Street, N. W.	7,718.98
2101 G Street, N. W. (Improvements to Property)	3,462.86
2103 G Street, N. W. (Lot)	2,795.17
1016 13th Street and 1300 L Street, N. W.	20,796.00
	507,442.49
	<u>\$674,914.55</u>

\$674,914.55

REPORT OF THE TREASURER

Trust Funds and Investments.

Trust Funds Investments:		Trust Funds, Exhibit "M":	
Endowment Funds, Exhibit "N".....	\$451,790.75	Endowment Funds	\$453,164.02
Executory Trust Funds, Exhibit "O"	39,918.07	Executory Funds	48,608.83
			<u>\$501,772.85</u>
Cash on Hand, for Investment, August 31, 1918:			
Endowment Funds	1,373.27		
Executory Trust Funds.....	8,686.76		
	10,060.03		
Accrued Interest	4.00		
	<u>\$501,772.85</u>		<u>\$501,772.85</u>
NOTE:			
Surplus General Property	\$297,698.25		
Trust Funds	501,772.85		
Unexpended Trust Funds Income	9,912.74		
Total Net Resources	<u>\$809,383.84</u>		

GENERAL ACCOUNTS

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EXHIBIT "B."

GENERAL SURPLUS

As at August 31, 1918.

Balance as at September 1, 1917.....	\$267,821.06
--------------------------------------	--------------

Add:

Transfer from Fifty Thousand Dollar Building and Grounds Fund.....	1,000.00
1916-1917 Fees Charged	8.50
Old Accounts Collected	25.00
Net Income for University for the year ended August 31, 1918, transferred from Revenue Account, Exhibit "E"	13,901.05
	<u>\$282,755.61</u>

Less:

General Funds transferred to Administration Building Fund	2,000.00
Uncollectible Accounts, 1916-1917.....	1,963.10
Endowment Income, 1916-1917, not collected	177.79
1916-1917 Summer School Salaries.....	1,319.03
1916-1917 Fees credited	118.81
Students' Ledger difference adjusted.....	72.38

Net Income Medical and Dental Schools for the year ended August 31, 1918, transferred to Medical School Surplus, Exhibit "C"	8,437.42
	<u>\$14,088.53</u>

Deduct Net Loss Law School for the year ended August 31, 1918, transferred to Law School Surplus, Exhibit "D"	634.45
	<u>\$13,454.08</u>

Balance August 31, 1918.....	<u><u>\$269,301.53</u></u>
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NOTE BY TREASURER:

Balance August 31, 1918	\$269,301.53
Invested in Real Estate, Equipment, etc.....	\$265,559.85
Students' Accounts Uncollected.....	3,758.96
	<u>269,318.81</u>
Deficit August 31, 1918	<u><u>\$17.28</u></u>

REPORT OF THE TREASURER

EXHIBIT "C"

MEDICAL DEPARTMENT SURPLUS

As at August 31, 1918.

Balance as at September 1, 1917\$ 19,431.20

Add:

1916-17 Fees Charged55
Old Account Collected	42.12
Hospital Accounts 1910-16 Collected.....	63.80
Net Income Medical and Dental Schools for the year ended August 31, 1918, Exhibit "J".....	8,437.42
Net Income University Hospital for the year ended August 31, 1918, Exhibit "K".....	925.31
	<u>\$28,900.40</u>

Less:

Uncollectible Accounts:	
Medical and Dental Schools, 1916-	
1917	\$405.31
University Hospital, 1916-1917.....	929.25
	<u>1,334.56</u>
Fees 1916-1917	33.01
Old Fees	85.21
Building Coal Bin at Hospital.....	300.00
	<u>1,752.78</u>

Balance as at August 31, 1918.....\$ 27,147.62

NOTE BY TREASURER:

Balance August 31, 1918	\$ 27,147.62
Invested in Real Estate, Equipment, etc.....	\$ 8,009.22
Students' and Hospital Accounts Uncollected	1,123.09
	<u>9,132.31</u>
Available Cash Balance August 31, 1918.....	<u><u>\$ 18,015.31</u></u>

GENERAL ACCOUNTS

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EXHIBIT "D."

LAW SCHOOL SURPLUS.

As at August 31, 1918.

Balance, as at September 1, 1917.....\$ 3,308.38

Add:

1915-16 Fees Charged.....	10.00
1916-17 Fees Charged.....	20.00
	<hr/>
	\$ 3,338.38

Less:

Uncollectible Accounts, 1916-17.....	\$ 1,374.33
Old Fees Credited	35.50
Payments for Instruction, 1917.....	45.00
Deficit Law School for year ended August	
31, 1918, Exhibit "H".....	634.45
	<hr/>
	2,089.28

Balance as at August 31, 1918.....\$ 1,249.10

NOTE BY TREASURER:

Balance August 31, 1918.....	\$ 1,249.10
Invested in Equipment, etc.....	\$ 1,559.41
Students' Accounts Uncollected.....	620.37
	<hr/>
	2,179.78
	<hr/>
Deficit August 31, 1918.....	\$ 930.68

EXHIBIT "E."

REVENUE ACCOUNT.

For the year ended August 31, 1918.

<i>Expenses.</i>		<i>Income.</i>	
Administration Expenses:		Department of Arts and Sciences:	
Salaries, Clerk Hire, etc.....	\$ 13,913.91	Exhibit "F".....	\$ 2,721.60
Stationery and Printing.....	979.08	Medical and Dental Schools:	
Telephone.....	188.71	Exhibit "J".....	8,437.42
Advertising.....	591.56	Contributions:	
Postage.....	512.62	For Furnishing 2027 G Street N.W..	\$70.82
Auditing.....	500.00	For Improving Grounds, 2101 G	50.00
Commencement Expenses.....	2,429.33	Street N.W.....	600.00
Attorneys.....	265.00	For salary of Dr. Horta.....	
Rent.....	400.00	General Expenses from:	
Miscellaneous.....	1,401.98	Dept. of Arts and	
		Sciences.....	\$17,500.00
Interest on Trust Notes.....	\$ 21,182.19	Law School.....	1,000.00
Taxes.....	795.24	Dental School.....	1,000.00
Trust Fund Scholarships.....	516.41	University Hospital.....	1,500.00
Debating Council.....	210.00		21,000.00
Deficit Law School, Exhibit "H".....	110.58		
Net Income for year ended August 31, 1918, trans-	634.45		
ferred to Surplus Account, Exhibit "B".....	13,901.05		
		Income from Investments:	
		Endowments for General Purposes, Exhibit "P".....	1,439.64
		Income from Other Sources:	
		Graduation Fees.....	\$ 2,014.00
		Bonding Fees.....	9.00
		Interest.....	813.61
		Matriculation Fees, National School	
		of Pharmacy.....	50.00
		Matriculation Fees, Veterinary	
		School.....	90.00
		Miscellaneous.....	53.83
			3,030.44
			<u>\$37,349.92</u>

GENERAL ACCOUNTS

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EXHIBIT "F."

DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1918.

Income.

Tuition:

School of Graduate Studies.....	\$ 8,702.77	
Columbian College	44,602.00	
College of Engineering.....	25,904.26	
Teachers' College	8,281.26	
		\$ 87,490.29

Matriculation:

School of Graduate Studies.....	300.00	
Columbian College	2,605.00	
College of Engineering.....	1,100.00	
Teachers' College	310.00	
		4,315.00

Laboratory:

School of Graduate Studies.....	404.49	
Columbian College	1,361.24	
College of Engineering.....	2,339.73	
Teachers' College	106.37	
		4,211.83

Library:

School of Graduate Studies.....	229.00	
Columbian College	1,271.00	
College of Engineering.....	628.00	
Teachers' College	309.00	
		2,437.00

Miscellaneous:

Contribution for Sigma Kappa Prize.....	10.00	
Contribution for Pi Beta Phi Prize.....	10.00	
Contribution for Chi Omega Prize.....	15.00	
Rent of Fraternity Rooms.....	332.00	
Fire Loss Claim, 2023 G Street N.W.....	100.00	
		467.00
		\$98,921.12

Expenses.

Salaries	\$58,691.49	
Laboratories	2,971.82	
Stationery and Printing	691.86	
Library	152.63	
Sigma Kappa Prize	10.00	
Pi Beta Phi Prize	10.00	
Postage	194.42	
Telephone	330.99	
Depreciation on Equipment	893.73	
Depreciation on Library Books	271.28	
Miscellaneous	290.13	
		\$64,508.35
Advertising Scholarships	525.00	
University Scholarships	1,485.00	
High School Scholarships	911.25	
Faculty Scholarships	358.75	
Ministerial Aid	465.60	
University Aid	671.18	
		4,416.78
University Hall:		
Wages	4,524.12	
Rent	1,506.20	
Heat and Light	2,834.42	
Repairs	1,105.11	
Hauling	185.00	
Insurance	293.06	
Supplies and Expense	985.74	
		11,433.65
		80,358.78
Transferred to General Funds	17,500.00	
		\$ 97,858.78
		1,062.34
Net Income Department of Arts and Sciences Summer		
School transferred from Exhibit "G"		1,659.26
Net Income transferred to Revenue Account, Exhibit "E"		\$ 2,721.60

Note:

Library books were purchased during the year to the amount of \$1,139.49.

GENERAL ACCOUNTS

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EXHIBIT "G."

DEPARTMENT OF ARTS AND SCIENCES

SUMMER SCHOOL.

For the year ended August 31, 1918.

Income.

Tuition	\$ 6,568.00	
Laboratories	567.13	
		\$ 7,135.13

Expenses.

Salaries	\$ 5,439.88	
Advertising	28.00	
Miscellaneous	7.99	
		5,475.87
Net Income transferred to Department of Arts and Sciences, Exhibit "F"		\$ 1,659.26

REPORT OF THE TREASURER

EXHIBIT "H."

LAW SCHOOL.

For the year ended August 31, 1918.

Income.

Tuition	\$ 21,537.00	
Matriculation	880.00	
Library	740.00	
Reinstatement Fee	5.00	
Contribution for Phi Delta Phi Prize.....	25.00	
Contribution for Herrick Prize.....	25.00	
Contribution for Ellsworth Prize.....	25.00	
		\$ 23,237.00

Expenses.

Salaries	\$17,806.04	
Library	92.10	
Stationery and Printing	170.89	
Telephone	137.67	
Postage	100.00	
Advertising	584.37	
Phi Delta Phi Prize	25.00	
Herrick Prize	25.00	
Ellsworth Prize	25.00	
Depreciation on Equipment	64.95	
Depreciation on Library Books.....	164.64	
Miscellaneous	61.95	
		19,257.61
Law Hall:		
Wages	515.00	
Rent	3,000.00	
Light	153.09	
Repairs to Equipment	79.46	
Supplies and Expense	10.69	
		3,758.24
Transferred to General Funds.....	1,000.00	
		24,015.85
		778.85
Net Income Law Summer School transferred from Exhibit "I"		144.40
Net Deficit transferred to Revenue Account, Exhibit "E"		\$ 634.45

NOTE:

Library books were purchased during the year to the amount of \$362.10.

EXHIBIT "I."

LAW SUMMER SCHOOL.

For the year ended August 31, 1918.

Income.

Tuition	\$ 1,010.00
---------------	-------------

Expenses.

Salaries	\$ 828.20
Advertising	32.40
Postage	5.00
	865.60

Net Income transferred to Law School, Exhibit "H"	\$ 144.40
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EXHIBIT "J."
MEDICAL AND DENTAL SCHOOLS.
For the year ended August 31, 1918.

Income.

Medical School:

Tuition	\$ 18,036.66	
Matriculation	220.00	
Laboratory	791.65	
Library	165.00	
Rent of Microscopes	409.00	
Miscellaneous	678.45	
		\$ 20,300.76

Dental School:

Tuition	18,548.30	
Matriculation	440.00	
Infirmary	3,601.90	
Library	132.00	
Rent of Microscopes	228.00	
Miscellaneous	713.70	
		\$23,663.90
		<u>\$43,964.66</u>

Expenses.

Salaries	\$20,470.25	
Laboratory	900.22	
Infirmary	2,289.81	
Stationery and Printing	863.87	
Advertising	119.25	
Telephone	225.50	
Postage	143.70	
Dues, etc.	303.00	
Depreciation on Equipment	599.14	
Depreciation on Library Books.....	46.39	
Faculty Scholarships	150.00	
Miscellaneous	166.90	
		26,278.03

Medical Hall:

Wages	\$ 2,066.61	
Heat and Light	3,557.72	
Hauling	191.50	
Repairs	1,737.86	
Supplies and Expense	695.52	
		8,249.21

Transferred to General Funds from Dental School

1,000.00
35,527.24

Net Income Medical and Dental Schools transferred to
Revenue Account, Exhibit "E".....\$ 8,437.42

NOTE:

Library books were purchased during the year to the amount of \$487.13.

NOTE:

Equipment was purchased during the year for the Dental Infirmary to the amount of \$110.00.

REPORT OF THE TREASURER

EXHIBIT "K."

UNIVERSITY HOSPITAL.

For the year ended August 31, 1918.

Income.

Pay Patients:

Collected	\$ 63,197.55	
Uncollected	614.49	
		<u>\$ 63,812.04</u>

Expenses.

Salaries	14,793.15
Table Supplies	23,173.56
Medical and Surgical Supplies	7,247.05
Electricity and Gas	2,211.63
Fuel	2,882.61
Laundry	2,228.03
Repairs	2,475.33
Miscellaneous Supplies	1,837.93
Ice	1,373.63
Telephone	518.49
Stationery and Printing	854.38
Insurance	482.74
Interest	354.63
Hauling	180.00
Miscellaneous	773.57

\$ 61,386.73

Transferred to General Funds..... 1,500.00

62,886.73Net Gain transferred to Medical School Surplus, Exhibit
"C"\$ 925.31

EXHIBIT "L."
STATEMENT OF CASH RECEIPTS AND PAYMENTS.
For the year ended August 31, 1918.

<i>Receipts.</i>		<i>Payments.</i>	
Receipts from Students:		Expenses:	
School of Graduate Studies.....	\$ 9,166.77	Department of Arts and Sciences.....	\$ 63,385.89
Columbian College	46,072.60	Law School	19,054.37
College of Engineering.....	28,541.52	Medical School	16,163.71
Teachers College	8,596.61	Dental School	6,686.75
Law School	22,816.63	Summer School:	
Medical School	18,826.57	Arts and Sciences Department.....	3,416.74
Dental School	20,685.68	Law School	862.40
Graduation Fees	2,024.00		
Summer School:		University Hospital	\$109,569.86
Arts and Sciences Department.....	7,110.50	Dental Infirmary	61,583.04
Law School	555.00	Refunds to Students	2,289.81
		Maintenance of Buildings:	3,476.55
University Hospital	\$164,395.88	University Buildings	11,514.65
Dental Infirmary	63,377.35	Law Hall	3,795.74
	3,601.90	Medical Hall	8,609.39
Contributions:			
Belgian Scholarship Committee for		General Expense	23,919.78
Lectures	600.00	Stationery and Printing	17,268.49
Furnishings for Women's University		Advertising	979.08
Club	70.82	Postage	591.56
For Improvement of Grounds, 2101		Interest	513.42
G Street N.W.	50.00	Commencement Expenses	818.75
Prizes	110.00	Equipment Medical School	2,429.33
		Equipment University Hospital	195.00
Students' Fees, 1916-1917	830.82	Equipment Arts and Sciences—General.....	392.04
Rent of Fraternity Rooms	2,386.46	Equipment Law School	1,730.70
National College of Pharmacy—Matriculation Fees	332.00	Arts and Sciences Library, Books.....	30.00
	50.00		1,139.49

REPORT OF THE TREASURER

College of Veterinary Medicine:			
Medical School Instruction	816.00	Law School Library, Books.....	362.10
Matriculation Fees	90.00	Medical School Library, Books.....	487.13
Rent of Microscopes	165.00	Real Estate, 2023 G Street Northwest.....	2,686.73
		Real Estate, 2101 G Street Northwest.....	3,462.86
		Real Estate, 2105 G Street Northwest.....	2,795.17
		Trust Notes, 2023 G Street Northwest.....	3,000.00
Transfer of Endowment Income.....	1,071.00	Equitable Co-operative Building Association Loan Account	300.00
Special Examinations	1,426.84	Debating Council	55.81
Student Activities	345.00	General Funds transferred to establish the Endowment, Restoration and Accretion Fund.....	2,000.00
Interest on Bank Balances	2,067.25	General Funds transferred to Administration Building Fund	2,000.00
Miscellaneous	813.61	General Surplus—Salaries Summer School, 1917.....	1,319.03
Total Receipts	642.41	Medical School Surplus—Coal Bin at Hospital.....	300.00
	\$241,340.52	Law School Surplus—Salaries Summer School, 1917.....	40.00
Cash Balance, September 1, 1917:		Transferred to Special Account at American Security & Trust Co. for Student Activities.....	2,160.93
Riggs National Bank	24,653.39	Accounts prepaid	1,957.80
Commercial National Bank	927.90	Total Payments	\$249,854.46
		Cash Balance, August 31, 1918:	
		Riggs National Bank.....	16,139.45
		Commercial National Bank.....	927.90
			17,067.35
			<u>\$266,921.81</u>
			<u>\$266,921.81</u>

TRUST ACCOUNTS

REPORT OF THE TREASURER

EXHIBIT "M."

TRUST FUNDS.

As at August 31, 1918.

GENERAL ENDOWMENT FUNDS

Permanent funds, principal to be invested and income only to be used, for support of the general work of the University.

Subscription Gifts Endowment Fund, 1845-1851:

Fund raised by authority of the Trustees of Columbian College by general subscription between the years 1845 and 1851, as a permanent endowment for the support of the College. (Formerly called the Poindexter Endowment Fund.)\$ 12,525.56

Withers Endowment Fund:

Fund raised by authority of the Trustees of Columbian College between the years 1851 and 1870, for increasing the endowment fund of the College; John Withers of Alexandria, Virginia, giving \$16,100, and the balance being obtained by general subscription. (Formerly called the Forty Thousand Dollar Endowment Fund.).... 26,891.46

Corcoran Endowment Fund:

Fund raised by authority of the Trustees of Columbian College and Columbian University between the years 1871 and 1886, to be forever held inalienable, and not to be diminished by use for the support of the institution, but the whole amount to be invested, in the discretion of the Trustees and according to their best judgment, and the interest thereon, or the income therefrom to be used for the current expenses and support of the institution; William W. Corcoran, of Washington, D. C., giving \$112,000, and the balance being obtained by general subscription (\$189,048.75 of this fund invested in Deed of Trust on Medical and Hospital Lands and Buildings) 217,864.92

Syms Endowment Fund:

Bequest of Samuel Robert Syms, of West Hoboken, New Jersey, in 1891, to Columbian University, to be applied by the Trustees towards the endowment of the College proper 1,500.00

\$258,781.94

PROFESSORSHIP ENDOWMENT FUNDS

Permanent funds, principal to be invested and income only to be used, for support of professorships as specified by the donors.

Congressional Professorship Endowment Fund:

Donation by the United States, in 1832, by Act of Congress, of \$25,000 in city lots in Washington, D. C., to be sold and the proceeds invested as a capital, the dividends or interest to be used and applied, in aid of other revenues of Columbian College, to the establishment and endowment of such professorships therein "as now are, or hereafter shall be, established by the Trustees"; (appropriated to the extent of \$6,295.77 by vote of the Board of Trustees to the support of the Professorship of English)\$ 91,711.93

Elton Professorship Fund:

Bequest of Rev. Romeo Elton, of Exeter, England, in 1872, to be applied for the foundation of a professorship of mental and moral philosophy in Columbian College, to be called the Elton Professorship of Mental and Moral Philosophy 14,508.19

Alumni Professorship Fund:

Gifts of various alumni since 1911, for the endowment of an Alumni Professorship of Mathematics, the amount to be invested and the interest only to be used for the professorship 829.49

\$107,049.61

SPECIFIC ENDOWMENT FUNDS

Permanent funds, principal to be invested and income only to be used, for designated purposes specified by the donors (other than support of professorships) incidental to, or connected with, the general work of the University.

*Scholarship Funds:**Walker Scholarship Fund:*

Gift of William Walker, of Putnam County, Georgia, in 1824, for the endowment of a scholarship.....\$ 2,500.00

Withington Scholarship Fund:

Gift of the Board of Trustees of the New York Baptist Theological Seminary, on behalf of John Withington of New York, in 1829, for the purpose of endowing a scholarship in Columbian College, to be named the Withington Scholarship..... 1,953.13

Morehouse Scholarship Fund:

Gift of A. Morehouse, of Washington, D. C., in 1861, to Columbian College, with the design of adding to its ability to furnish gratuitous instruction to indigent students for the Christian ministry..... 1,500.00

Kendall Scholarship Fund:

Gift of Amos Kendall, of Washington, D. C., in 1869, to Columbian College on behalf of Calvary Baptist Church in the City of Washington, to purchase a classical scholarship; the Trustees of Public Schools in the City of Washington, and their successors, to have the perpetual privilege of selecting from said schools one pupil annually to fill said scholarship, and the pupils so selected each to be entitled to instruction in said College for the term of six years, free of charge for tuition, use of library, and apparatus, or for any other privilege allowed to paying students of the same grade 5,959.61

Davis Scholarship Fund:

Gift of Isaac Davis, of Worcester, Massachusetts, in 1869, the income to be appropriated to some student pursuing his collegiate course in Columbian College under certain conditions 1,000.00

M. M. Carter Scholarship Fund:

Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1871, to Columbian College, to found a scholarship for some deserving young man..... 1,000.00

Farnham Scholarship Fund:

Gift of Mrs. Robert Farnham, of Washington, D. C., in 1871, to Columbian College for a scholarship in the College	1,000.00
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Powell Scholarship Fund:

Devise of real estate by Rear Admiral Levin M. Powell, of Washington, D. C., in 1886, to Columbian University for the free education of young men by way of preparation for entrance into the Naval Academy at Annapolis, or to fit them to become mates and masters in the Merchant Marine Service of the United States..	18,923.00
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Mary Lowell Stone Scholarship Fund:

Gift of an anonymous person in memory of Miss Mary Lowell Stone, in 1893, to Columbian University for scholarships for needy women students in science in the Department of Arts and Sciences.....	2,000.00
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H. H. Carter Scholarship Fund:

Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1896, in memory of her husband, Henry Harding Carter, to Columbian University, as a foundation for scholarships in civil engineering in Columbian College	5,000.00
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Nellie Maynard Knapp Scholarship Fund:

Gift of the Columbian Women, in 1915, in memory of Mrs. Nellie Maynard Knapp, to George Washington University, for scholarships for women in the Department of Arts and Sciences.....	3,000.00
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\$43,835.74

*Medical School and Hospital Funds:**Cooper Medical Research Fund:*

Bequest of Mrs. Eleanor J. Cooper, of Washington, D. C., in 1905, to Columbian University on certain terms since modified by the Supreme Court of D. C. as follows: The income to be devoted towards the establishment and maintenance, in connection with the Medical Department of George Washington University, of a Research Laboratory, the work of this laboratory to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases.....	10,000.00
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National Park Seminary Hospital Endowment Fund:

Gift of students of National Park Seminary, of Forest Glen, Maryland, in 1906, to George Washington University, for the endowment of a bed in the Uni- versity Hospital	500.00
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Woodbury Hospital Endowment Fund:

Bequest of Miss Ellen deQ. Woodbury, of Washington, D. C., in 1909, to George Washington University, for the reception and treatment of female patients in the hospital belonging to or connected with the Uni- versity	9,583.33
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Chapman Hospital Endowment Fund:

Bequest of Mrs. Susanna A. Chapman, of Washing- ton, D. C., in 1911, to George Washington University, to be used for the purposes of the free wards of its University Hospital.....	1,350.90
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Tree Hospital Endowment Fund:

Bequest of Lambert M. Tree, of Chicago, Illinois, in 1911, in memory of his mother, Mrs. Laura M. Tree, to Columbian University, for the purpose of establishing one or more beds in perpetuity in the University Hospital to be known as the "Laura M. Tree bed or beds"	10,000.00
	<u>\$31,434.23</u>

*Prize Funds:**Davis Prize Fund:*

Gift of Isaac Davis, of Worcester, Massachusetts, in 1847, to Columbian College, for prizes to be awarded annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College.....	700.00
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Ruggles Prize Fund:

Gift of William Ruggles, of Washington, D. C. (a professor in Columbian College and at one time Acting President), in 1859, to Columbian College, for a prize to be awarded annually for excellence in mathematics	500.00
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Staughton-Elton Prize Fund:

Gift of Rev. Romeo Elton, of Exeter, England, in 1860 and 1865, to Columbian College, for prizes to be awarded annually for excellence in the Latin and Greek languages; one to be called the Staughton prize in Latin, the other the Elton prize in Greek.....	500.00
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Fitch Prize Fund:

Gift of James E. Fitch, of Washington, D. C., in 1883, to Columbian University in memory of Willie E. Fitch, for a gold prize medal to be assigned annually under the auspices of the Scientific School....	1,000.00
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Walsh Prize Fund:

Gift of Thomas F. Walsh, of Washington, D. C., in 1901, to Columbian University, for a gold medal to be awarded annually for excellence in Irish history....	300.00
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Cutter Prize Fund:

Gift of Marion Kendall Cutter, of Washington, D. C., in 1902, to Columbian University, in memory of E. K. Cutter, for a prize to be awarded annually for excellence in the study of English.....	1,000.00
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Hubbard Prize Fund:

Gift of Mrs. Gertrude M. Hubbard, of Washington, D. C., in 1907, to George Washington University in memory of her husband, Gardiner G. Hubbard, for a prize to be awarded annually to the student in the undergraduate department of the University who, having maintained throughout four years a high standing in the classes of American history, may be required to present the best essay upon an assigned topic in this subject.....	1,000.00
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Ordronaux Prize Fund:

Bequest of John Ordronaux, of Glen Head, N. Y., in 1909, to George Washington University, for the establishment of biennial prizes in the Law and Medical Departments 4,762.50

Sterrett Prize Fund:

Gift of Rev. J. Macbride Sterrett, in 1911, to George Washington University in memory of his son, J. Macbride Sterrett, Jr., for a gold medal to be awarded annually to the student obtaining highest average in physics 200.00

\$9,962.50

ENDOWMENT RESTORATION FUND

Non-permanent fund, principal and income usable for the purposes specified.

Endowment Restoration and Accretion Fund:

A fund created by the Board of Trustees, October 10, 1917, without limitation of time or amount, to provide means for the restoration of principal of Endowment Funds used for current expenses prior to August 31, 1910. After such restoration has been effected from the fund or from any other source, the fund to be called General Endowment Accretion Fund, open and perpetual, the income only to be used for University purposes \$ 2,100.00

Summary.

General Endowment Funds.....\$258,781.94
Professorship Endowment Funds..... 107,049.61

Specific Endowment Funds:

Scholarship Funds\$ 43,835.74
Medical School and Hospital Funds..... 31,434.23
Prize Funds 9,962.50

85,232.47

Endowment, Restoration and Accretion Fund..... 2,100.00

Total Endowment Funds.....\$453,164.02

EXHIBIT "N."

ENDOWMENT FUNDS INVESTMENTS.

As at August 31, 1918.

STOCKS.

American Telephone and Telegraph Co.:	
6 shares of stock.....	\$ 708.00
Chicago, Rock Island and Pacific Railway Co.:	
40 shares of 7 per cent Preferred Stock.....	4,000.00

BONDS.

Chicago, Rock Island and Pacific Railway Co.:	
\$24,000 4 per cent First and Refunding Mortgage Bonds, due 1934	20,959.17
*Chicago, Rock Island and Pacific Railway Co.:	
\$10,000 4 per cent Collateral Trust Bonds, due 2002.....	8,094.72
Virginia Railway Co.:	
\$300 5 per cent First Mortgage Gold Bonds, Series "A," due 1962	297.38
Washington Railway and Electric Co.:	
\$4,500 4 per cent Consolidated Mortgage Gold Bonds, due 1951	3,631.25
Potomac Electric Power Co.:	
\$15,000 5 per cent Consolidated Mortgage Gold Coupon Bonds, due 1936	15,025.00
Norfolk and Washington Steamboat Co.:	
\$200 5 per cent Coupon Bonds, due 1931.....	208.00
City of New Brunswick, New Jersey:	
\$3,000 4 per cent Sinking Fund Bonds, due 1922.....	3,000.00
City of Medford, Massachusetts:	
\$3,000 4 per cent Sewerage Loan Bonds, due 1924.....	3,000.00
Liberty Loan Bonds—Second Series.....	2,000.00
Liberty Loan Bonds—Third Series.....	6,300.00

TRUST NOTES.

Thomas R. Marshall Note:	
Secured by deed of trust on part of lot 5, square 253, and lot 70, block 30, in Columbia Heights; interest 5 per cent; due May 5, 1919.....	5,000.00
Washington Sanitary Improvement Company Notes:	
Secured by deed of trust on lots in squares 509, 552, 615, 617 and 674; interest 5 per cent; due June 9, 1920.....	11,000.00
Agnes Plunkett Notes:	
Secured by deed of trust on part of lot 12, square 11, in Meridian Hill; interest $5\frac{1}{2}$ per cent; due February 4, 1920	200.00
Arthur T. Ramsey and Judith L. Steele Notes:	
Secured by deed of trust on lots 21, 22, 23 and part of lot 9, block 32, Columbia Heights; interest 5 per cent; due March 20, 1920.....	3,000.00
Interest in \$350,000.00 note payable to Washington Loan and Trust Co., Fiscal Agent of George Washington University, Trustee of Endowment Funds, secured by deed of trust, executed by the University to National Savings and Trust Company, Trustee, December 1, 1910, on Medical and Hospital Lands and Buildings, 1335, 1339 and 1341 H Street N.W.; without interest; due on or before De- cember 1, 1920	323,430.23

*To secure these bonds the University has received 100 shares of Chicago, Rock Island and Pacific Railway Co. common stock.

REPORT OF THE TREASURER

REAL ESTATE.

Congressional Endowment:

Lot 8, square 13.....	\$ 2,565.00	
Lot 10, square 13.....	2,218.00	
Lot 12, square 13.....	4,588.00	
Lot 13, square 13.....	3,924.00	
Lot 9, square 16.....	2,224.00	
Lot 8, square 23.....	3,055.00	
Lot 2, square west of 23.....	1,069.00	
Lot 5, square 87.....	1,896.00	
		21,539.00
Powell Endowment, 1707 I Street N.W.....		18,923.00
Chapman Endowment, Hyattsville		125.00
Corcoran Endowment, sub-lot 148, square 672.....		1,350.00
		<u>\$451,790.75</u>

SUMMARY.

Stocks	\$ 4,708.00	
Bonds	62,515.52	
Trust Notes	342,630.23	
Real Estate	41,937.00	451,790.75
Cash on hand for Investment, August 31, 1918, Exhibit "A"		1,373.27
Total Endowment Funds, Exhibit "M"		<u><u>\$453,164.02</u></u>

EXHIBIT "O."

EXECUTORY TRUST FUNDS AND INVESTMENTS.

Non-permanent funds, principal and income usable for the purpose specified by the donors, each trust terminating on its execution.

Principal Investment
of Fund. of Fund.

*Executory Trust Funds not Confined to Building Purposes:**Denman Law School Fund:*

Bequest of Hampton Y. Denham, of Washington, D. C., in 1904, to Columbian University, for the use and benefit of the Law Department	\$ 8,782.51	\$ 7,179.32
Interest in General Property of the University Rita Weller Note:		
Secured by deed of trust on lots 16 to 34 and 36 to 44, square 849; interest 5 per cent; due October 25, 1918.....		1,000.00
Cash		603.19

Law School Fund:

Amounts set aside by the Trustees of the University since 1911 for the benefit of the Law School	15,294.43	
Liberty Loan, First, Converted \$13,650.00 4 per cent bonds.....		13,650.00
Cash		1,644.43

Jacques Law School Fund:

Bequest of Mrs. Mary Emma Jacques, of Washington, D. C., in 1912, to George Washington University, to be used in such manner as the Trustees may direct for the Law School	4,541.02	
Rita Weller Notes:		
Secured by deed of trust on lots 16 to 34 and 36 to 44, square 849, interest 5 per cent; due October 25, 1918.....		4,000.00
Cash		541.02

Jacques Medical School Fund:

Bequest of Mrs. Mary Emma Jacques, of Washington, D. C., in 1912, to George Washington University, to be used in such manner as the Trustees may direct for the Hospital of the University.....	4,541.03	
U. S. Steel Corporation:		
\$3,000.00 5 per cent Sinking Fund Gold Coupon Bonds, due 1963.....		3,060.00
Metropolitan Railroad Co.:		
\$1,000.00 5 per cent First Mortgage Gold Bond, due 1925.....		1,070.00
Cash		411.03

Mayer Hospital Fund:

Bequest of Theodore J. Mayer, of Washington, D. C., in 1907 (received in 1916), to George Washington University, for the benefit of the University Hospital....	3,678.95	
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REPORT OF THE TREASURER

	Principal of Fund.	Investment of Fund.
Potomac Electric Power Co.:		
\$2,000.00 5 per cent Consolidated Mortgage Gold Coupon Bonds, due 1936.....		2,028.75
Washington Gas Light Co.:		
\$1,000.00 5 per cent General Mortgage Gold Bond, due 1960.....		1,105.00
Cash		545.20
	<u>\$36,837.94</u>	<u>\$36,837.94</u>

Building Funds:*Law School Building Fund:*

Gifts of various persons towards a fund authorized by the Trustees of the University May 31, 1916, for purchasing a site and erecting a Law School building....	\$ 7,177.47	
Accrued Interest on \$300.00 Second Liberty loan		\$ 4.00
Washington Railway and Electric Co.:		
\$1,000.00 4 per cent Consolidated Mortgage Gold Bond, due 1951.....		860.00
Liberty Loan, Second:		
\$5,400.00 4 per cent bonds.....		5,400.00
Liberty Loan, Third:		
\$50.00 4½ per cent bonds.....		50.00
Cash		863.47

General Building Fund:

Gifts of various persons towards a fund authorized by the Trustees of the University May 31, 1916, for purchasing sites, buildings and equipment, remodelling or rebuilding, and paying off obligations. This is an open subscription fund, to be continued and increased indefinitely. (All subscriptions to this fund have been appropriated by resolutions of the Board of Trustees to the Law School Building Fund, until otherwise directed.).....	653.42	
Norfolk and Washington Steamboat Co.:		
\$500.00 5 per cent Coupon Trust Bond, due 1931		515.00
Cash		138.42

Fifty Thousand Dollar Building and Grounds Fund:

Gifts of various persons towards a fund authorized by the Trustees of the University for purchasing sites and buildings, remodelling or rebuilding, and paying off obligations	1,665.00	
Cash		1,665.00

	<i>Principal of Fund.</i>	<i>Investment of Fund.</i>
<i>Mechanical Engineering Laboratory Building Fund:</i>		
Gifts of various persons towards a fund authorized by the Trustees of the University for erection and equipment of a building for Mechanical Engineering. This building has been completed. The amount stated in account represents delayed payments on subscriptions, and is to be transferred to General Account to reimburse for advances during construction		
	275.00	
Cash		275.00

Administration Building Fund:

Amount set aside by the trustees of the University November 17, 1917, to be used in the purchase of the Administration Building, 2101 G Street N.W., under an option contained in the lease expiring December 1, 1922.....		
	2,000.00	
Cash		2,000.00
	<u>\$11,770.89</u>	<u>\$11,770.89</u>

SUMMARY.

<i>Principal of Funds.</i>	<i>Principal of Fund.</i>	<i>Investment of Fund.</i>
Funds not confined to building purposes.....	\$ 36,837.94	
Building Funds	11,770.89	
<i>Investment of Funds.</i>		
Bonds		\$ 27,738.75
Trust Notes		5,000.00
Deed of Trust		7,179.32
Accrued Interest		4.00
		<u>\$ 39,922.07</u>
Cash		8,686.76
	<u>\$48,608.83</u>	<u>\$48,608.83</u>

REPORT OF THE TREASURER

ENDOWMENT AND EXECUTORY TRUST FUNDS, INCOME AND EXPENSE.
For the year ended August 31, 1918.

	Balance Aug 31, 1917		Year ended Aug. 31, 1918		Balance Aug 31, 1918	
	Debit.	Credit.	Expense.	Income.	Debit.	Credit.
<i>Endowment Funds:</i>						
Congressional Professorship of English Fund	\$.	\$ 255.84	\$ 255.84	\$ 258.28	\$.	\$ 258.28
<i>General Endowment Funds:</i>						
Corcoran Endowment Fund		1,171.00	1,171.00	1,181.36		1,181.36
Elton Professorship Fund		1,77.79	11.00	179.36		346.15
Alumni Professorship of Mathematics Fund		31.65	31.65	34.01		34.01
Wittington Scholarship Fund		82.20		15.57		97.77
Kendall Scholarship Fund		646.81	402.50	184.48		428.79
Davis Scholarship Fund	71.20			1.64	69.56	
Powell Scholarship Fund		3,974.35	3,920.27	1,741.49		1,795.57
H. H. Carter Scholarship Fund	206.25				206.25	
Nellie Maynard Knapp Scholarship Fund		139.04		122.99		262.03
Cooper Medical Research Fund		2,457.87		409.96		2,867.83
National Park Seminary Hospital Endowment Fund		210.30		20.50		230.80
Woodbury Hospital Endowment Fund	19.05			392.88		373.83
Chapman Hospital Endowment Fund		48.53		50.26		98.79
Tree Hospital Endowment Fund	17.83			409.97		392.14
Davis Prize Fund		62.47	30.00	28.70		61.17
Ruggles Prize Fund	40.50				40.50	
Fitch Prize Fund	41.68		50.00	9.67	82.01	
Walsh Prize Fund		104.15		12.30		116.45
Cutter Prize Fund		80.11	40.00	41.00		81.11
Hubbard Prize Fund	10.03		40.00	41.00		
Sterrett Prize Fund		33.99		8.20		42.19
Ordronaux Prize Fund		86.48	190.00	163.49		62.97
<i>Executory Trust Funds:</i>						
Mayer Hospital Fund		149.49		171.94		321.43
Denman Law School Fund		62.60	62.60	60.94		60.94
Law School Fund		597.25	597.25	603.37		603.37
Jacques Law School Fund		177.33	173.33	126.36		126.36
Jacques Medical School Fund		177.33	173.33	225.66		225.66
Law School Building Fund				140.00		140.00
General Building Fund				25.00		25.00
Endowment Restoration and Accretion Fund				86.09		86.09
Less Balances	406.54	10,726.58	7,156.77	6,749.47	407.35	10,320.09
Net Balances		\$10,320.04	\$ 407.30			\$ 9,912.74

TRUST ACCOUNTS

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Summary.

Unexpended Income, Cash on Hand, September 1, 1917.....		\$ 10,320.04
Income for Year:		
Endowment Funds:		
Income for General Purposes.....	\$1,618.90	
Income for Designated Purposes	3,691.21	
	<hr/>	\$ 5,310.11
Executory Trust Funds:		
Income for Designated Purposes	1,439.36	
	<hr/>	6,749.47
Total		<hr/> \$ 17,069.51
Expenses for Year:		
Endowment Funds:		
Expenses for General Purposes....	1,437.84	
Expenses for Designated Pur- poses	4,704.42	
	<hr/>	6,142.26
Executory Trust Funds:		
Expenses for Designated Pur- poses	1,014.51	
	<hr/>	7,156.77
Unexpended Income, Cash on Hand, August 31, 1918.....		<hr/> \$9,912.74